An Examination of Aurignacian Technology:
Levels L and M at Termo-Pialat (Dordogne, France)

By

Melinda Marie Hickman

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Dr. Ivana Radovanovic, Chairperson

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Dr. Jack L. Hofman

____
Dr. David Frayer

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The Thesis Committee for Melinda Marie Hickman certifies
That this is the approved Version of the following thesis:

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____
Dr. Ivana Radovanovic, Chairperson

____
Dr. Jack L. Hofman

____
Dr. David Frayer

Date approved: ______________________

Abstract

The depth of research into the Upper Paleolithic of Europe, and specifically Southwest France, provides a resource facilitating comparison of lithic assemblages. Stratified deposits allow comparison of data among cultural levels at and also between archaeological sites. This research examines changes in lithic technology during the Aurignacian period at Termo-Pialat in the Couze Valley. Debitage and typological analysis is applied to materials collected from levels L and M in the summer of 1966. This study will address the lithic industries of Termo-Pialat in terms of *chaîne opératoire,* change over time, and comparison with rich industries in Southwest France. *Chaîne opératoire* suggests the assemblages represent a lithic workshop where flakes and blades were present and retouched. Results include a preference for retouching on larger blanks. This data corresponds to similar findings from analysis performed on the rich Aurignacian deposits at La Ferrassie and Facteur. Levels of retouch are more robust at Termo-Pialat than from Aurignacian deposits at Abri Pataud, La Caminade and Le Flageolet I (although this may be due to sampling). Finally, slight change over time is observed on technological attributes of debitage and levels of retouch between level L and M at Termo-Pialat.

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Introduction

In 1906, Abbe Henri Breuil was the first scholar to apply the nomenclature of Aurignacian to distinct Proto-Solutrean material (Breuil 1906). A hundred years later, the Aurignacian technocomplex continues to be a subject of debate among scholars. The range of questions that remain regarding the material culture of this period and the people who made them is diverse and varied. Currently, investigations are being conducted on who made the Aurignacian, what influence the Aurignacian had on Neandertals, and where the Aurignacian began. The history of research is deep and allows a framework for more refined investigation and theory building. Collections of Aurignacian material in museums allow researchers to analyze previously unpublished materials or re-investigate theories deduced without the benefit of modern technology. The benefit of this research will be a better understanding of the lifeways of the Aurignacian people. This work attempts to enhance the wealth of knowledge with an in-depth analysis and presentation of the Aurignacian-age chipped stone materials from Termo-Pialat.

The present investigation of collections from Termo-Pialat consists of a technological and typological analysis of the chipped stone materials from archaeological deposits L and M. The current project will proceed in five chapters. Chapter one will discuss general information regarding the Aurignacian. This includes: history of research on the technocomplex, origin of the technocomplex, technological characteristics including common forms of stone and organic tools, chronology or numerical dates when it was present in Europe, and environment during the time of the Aurignacian. Chapter two supplies a site history of Termo-Pialat and explains the theoretical frameworks used for the research. Chapter three provides information about the methodology employed during this study. Chapter four gives the results of the statistical analysis performed on the data. The fifth and final chapter includes a general discussion of the results including a comparison to other Aurignacian sites in the region and across Europe.

Chapter One: The Aurignacian Technocomplex

The Aurignacian techncomplex is a sub-division of the Upper Paleolithic, the time which saw the first *Homo sapiens sapiens* in Europe. The period is characterized by common artifacts such as the carinate scraper and the split base point of bone. The Aurignacian is an early period in the Upper Paleolithic in Europe.

History of Aurignacian Research

The type site for the Aurignacian technocomplex is the cave of Aurignac in the Hautte-Garonne region of southwest France. This site was excavated by E. Lartet in 1860, although at that time the Aurignacian was not recognized as a distinct technocomplex. In 1869, G. de Mortillet placed the Aurignacian deposits in the Solutrean and Magdalenian periods (Bordes 1984: 219). In 1870, E. H. Hamy placed the level from Aurignac between the Mousterian and the Solutrean and Magdalenian. As previously noted, the first to refer to the Aurignacian as an industry and subsequently name it was Abbe Breuil in 1906. Breuil presented a chronology of the Upper Paleolithic for Southwest France including the Aurignacian as the earliest period. In 1933, Denis Peyrony identified the Périgordien (also known as Châtelperronien) tradition and subdivided the Aurignacian into five stages. This chronology was based on the changing morphology of split based points at La Ferrassie and Laugerie-Haute (Peyrony 1934). The scholarship of these two individuals in built a framework for further research of the early Upper Paleolithic and Aurignacian technocomplex.

Competing Theories on the Origin of Anatomically Modern Humans

The origin and spread of *Homo sapiens sapiens* is still a matter of discussion among archaeologists. This is of concern because the people who manufactured the Aurignacian technocomplex are a product of this evolution. Currently, two major theories regarding the evolution of our species dominate scholarly discussion: Multiregionalism and Out of Africa.

The Multiregionalism Theory suggests anatomically modern humans evolved separately in Europe, Asia and Africa. From these respective places the species spread, co-mingled and eventually replaced the archaic species (*Homo erectus*, *Homo ergaster*, *Homo heidelbergensis* and *Homo sapien neanderthalensis*). The genesis of this model is found in the writings of Wiedenreich (1939, 1943, 1946). He suggested modern humans evolved as an interrelated system of populations that preserved regional continuity. 'Races' in modern populations are a result of a mixture of gene flow and regional continuity.

The multiregionalism theory (also referred to as Continuity Model) places particular emphasis genetic continuity of archaic and modern human populations in specific regions of the world. This model suggests modern humans can not be defined by an exclusive anatomical or behavioral characteristic. In contrast, multiregionalists maintain there is "fossil evidence supporting the interpretation that modernity was approached over a long time period as successful new features and behaviors appeared in different places and were able to spread across the human range because people migrated and exchanged genes" (Wolpoff 2004: 245). Archaic humans never crossed an invisible barrier to a new specie (specifically *Homo sapiens sapiens*) but instead it was a long process of gene flow between populations and the adaptation of specific behaviors that lead to the development of anatomically modern humans. Anatomically modern humans developed in different areas of world kept together as a species by gene flow. Strong evidence for the multiregionalist model is found in the fossil record and contemporary populations (Frayer et al. 1993). Characteristics of hominid crania recovered from the Middle Paleolithic site of Zhoukoudian in China reflect features common in modern Asian populations, including maxillary incisor shoveling (Cadien 1972; Wolpoff 1985). Cranial characteristics of Neandertals, such as reduction of the brow ridge in Central Europe, are also interpreted as evidence for regional population continuity. Additionally, variation within late Neandertal specimens is interpreted as different stages of transition into anatomically modern humans (Wolpoff 1989; Wolpoff and Frayer 1992).

The Out of Africa model (also referred to as Replacement model or Recent Single Origin) suggests anatomically modern humans evolved in Africa and the descendants of "Eve" spread into Asia and Europe (Protsch 1975; Howell 1976; Stringer and Andrews 1988). Modern humans that evolved in Africa replaced earlier archaic humans such as *Homo erectus*, *Homo ergaster*, *Homo heidelbergensis,* and *Homo sapien neanderthalensis* with miniscule levels of interbreeding between modern and archaic populations. This model is supported by genetic and fossil evidence. Data recovered from Mitochondrial DNA (mtDNA) suggests anatomically modern humans evolved from a group of females in Africa approximately 200,000 years ago (Cann et al. 1987). Because mtDNA in females does not recombine with male genes during procreation, it provides a relatively intact line back to the beginning of the species. The word relative is important here as genetic mutation is presumed to be constant in DNA production. Genetic diversity in Africa also supports the Out of Africa model. In theory, the greatest genetic diversity would be found in the area where humans first evolved and consequently remained the longest. Research conducted on various genetic markers show diversity is highest amongst the African population (Vigilant et al. 1991; Bowcock et al. 1994; Kaessmann et al. 1999; Yu et al. 2002).

Additional support for the Out of Africa theory is found in fossil evidence recovered from Africa. Recent developments in paleoanthropology situate anatomically modern human at Omo I in Ethiopia at approximately 195,000 B.P. (McDougall et al. 2005). Additional fossil evidence is found in remains of anatomically modern humans dated to 160,000 B.P. at the site of Herto in Ethopia (White et al. 2003). Complex behavior such as language, art, and advanced technology is known to be associated with modern humans. Complex behavior associated with anatomically modern humans is observed earliest in Africa at the Middle Stone Age site of Blombos Cave in South Africa. Archaeological deposits from this site include two pebbles of hematite with deliberate engravings dating to 77,000 B.P. (Henshilwood et al. 2002: 1279).

Origin of the Aurignacian

While the point of origin of the Aurignacian technocomplex remains unclear, it is not due to a lack of research. Questions such as, "was the Aurignacian indigenous to Europe or did it arrive with a migrating population?" were raised to open discussion on the topic. Garrod (1953) was the first to hypothesize on the subject. She consequently suggested southwest Asia as a possible source. Since the first theory on the subject was raised in the 1950's, the scope of research has broadened. Currently, scholars recognize lithic industries with similar (but never exact) characteristics to the Aurignacian from all over Asia (Kozlowski and Otte 1994, 2000; Olszewski and Dibble 1996).

Select scholars endorse Southwest Asia as a point of departure for those who brought Aurignacian material to Europe (Garrod 1953; Mellars 1992: 28; Zilhao and d'Errico 1999: 52). Some suggest the Aurignacian was a product of evolution directly from the Levantine Mousterian (Newcomer 1974). Archaeological sites in southwest Asia contain assemblages with similar assemblages (but not typical) to the Aurignacian techno-complex labeled the Levantine Aurignacian. Archaeological deposits at such sites as Boker Tachtit in the Negev desert (Marks 1983) and Ksar Akil in Lebanon (Newcomer 1974) produced a flake technology with a few blades and carinated core-tools reminiscent of typical Aurignacian. Material from Boker Tachtit was dated with uranium series and "tentatively bracketed between 47,000 and 38,000 years ago" (Klein 1992: 8). In the central Negev, Ein Aqev produced a series of dates ranging from 32,000+/-1500-16,900+/-250 (Marks and Ferring 1988: 67). The late Levantine Aurignacian deposits contain more tools typical of the technocomplex in Western Europe including Dufour bladelets and Font-Yves points. The paucity of absolute dates from Levantine Aurignacian deposits retards a true conclusion to the question of whether Asia was the location for the origin of the Aurignacian.

Scholars also view other areas of Asia as the origin for the Aurignacian (Kozlowski and Otte 1994, 2000; Olszewski and Dibble 1996; Otte 2004). Evidence from sites in the Zagros has some scholars sponsoring it as the source for the Aurignacian technocomplex. For example, modern investigations of Warwasi (Iran) highlighted the similarities of the technocomplex to the Aurignacian. This even prompted scholars to suggest changing the name from Baradostian to the Zagros Aurignacian (Olszewski and Dibble 1994: 68). Yafteh Cave, another site in the Zagros with "Baradostian" materials, produced nine radiocarbon dates ranging from 40,000-29,400 BP. The Anuy River basin in Siberia also provides interesting evidence for the origin of the Aurignacian (Otte and Derevianko 2001, Otte 2004). Denisova Cave and Ust Karakol both contained stratified paleosols with retouched blades and carinated end scrapers. Along with the lithic tools, a single pendant was recovered at Ust Karakol. The raw material of this item has been tentatively identified as ivory (Otte and Dervianko 2001). These collections gained increased significance when radiocarbon and thermoluminescence dates from Ust Karakol were returned as 50,000-35,000 BP (Derevianko and Markin 1998).

The population expansion of anatomically modern humans with the Aurignacian technocomplex into Europe is pertinent to this discussion. Davies (1994, 2001) suggests a model describing two distinct phases of movement into Europe by those bringing the Aurignacian. The early, or Pioneer phases, assemblages are synonymous with the Aurignacian 0 or 1 levels. The later, or Developed, phase assemblages contain evidence for more aspects of complex behavior associated with typical Aurignacian assemblages. Mellars (2006: 933) also favors a dual group dispersal suggesting "one along the Mediterranean coast from Israel to northern Spain and the other along the Danube valley from the Balkans to southern Germany and eventually western France". The Danube Corridor Hypothesis also suggests the makers of the Aurignacian (and Gravettian) technocomplex traveled up the Danube River to settle in the Swabian Jura area of Germany (Conard et al. 1999). Early AMS and radiocarbon dates from Aurignacian deposits confirm an early occupation of this area (Conard and Bolus 2003).

Characteristics of the Aurignacian Technocomplex

The early Upper Paleolithic (and specifically the Aurignacian technocomplex) is characterized by a number of innovations that are absent from Middle Paleolithic assemblages. Fortunately for modern scholars, many of these developments are preserved and reflected in the archaeological record. Changes during this time reflect a number of new technologies and social developments. Most of the recognized innovations made were in the realm of technology. First, production techniques for chipped stone tools changed, shifting from flake to blade technology, resulting in an extension of the length of cutting edge for stone tools. This allowed humans to create lithic stone tools with a longer and straighter cutting edge while utilizing fewer raw materials. In general, blade technology allows a more economical use of lithic material (once the core has been created) than does flake technology. Secondly, during this period bone and antler are first exploited as sources of raw material for tool manufacture. Shortly after organic tools such as these appear in the archaeological record they become quite abundant. Third, lithic materials are transported further distances during the Upper Paleolithic. Some materials found up to 100 kilometers away from their source (Bar-Yosef 2002: 367). Fourth, variability of types and specialization of tools increase during the Aurignacian, in contrast to those of the preceding Mousterian period (Mellars 1989a). Examples of new tool types appearing in the Upper Paleolithic include the burin and retouched blade. Changes in technology and raw material utilization allowed for an increased capacity of anatomically modern humans to thrive in the harsh environment of the Pleistocene.

Another area of innovation during the early Upper Paleolithic is imagery and decoration. Items of personal ornamentation in the form of perforated shells, beads and teeth have been recovered from Aurignacian occupations (Taborin 1993: 213, White 1993: 280). The first displays of imagery, or "Paleolithic art", were also created during the Aurignacian period. The cave of Chauvet-Pont-d'Arc contained many painted and engraved friezes of animals such as lions, reindeer, horses and human handprints. Three different friezes produced twenty-two dates within the range of 32,000-30,000 B.P. or the late Aurignacian (Valladas et al. 2003: 33).

Evidence of complex behaviors such as symbolism is even seen in the very early Aurignacian. An intriguing therianthropic figure was recovered from Aurignacian deposits at Hohlenstein-Stadel (Germany) (Hahn 1971). The piece was sculpted from mammoth ivory into what is a shape commonly interpreted as a half-lion and half-human. In addition, items interpreted to be musical instruments are also recovered in Aurignacian deposits, including avian diaphyses with perforations (Buisson 1990). Displays of material culture such as these hint at a great deal of social complexity as yet largely undiscovered by modern scholars.

The Aurignacian technocomplex is the earliest widespread industry exemplifying common tool forms of lithic and organic material. As chipped stone is the most ubiquitous material preserved in archaeological sites, these tool forms are most commonly recognized. Also, the style of retouch favored by the producers of the Aurignacian called scalar is abrupt and distinctive (Brezillion 1968: 109). The Aurignacian scrapers are a most distinctive component of the technocomplex, including carinated and nosed forms. A carinated scraper displays a keeled shape with abrupt lamellar retouch of the scraping edge (Sonneville-Bordes and Perrot 1953; Demars and Laurent 1989:44-5). Nosed scrapers exhibit a rounded scraping edge protruding from the rest of the piece and manufactured on heavy blanks (designated thick nosed scrapers) or finer blanks (simply nosed scrapers). When the protruding piece favors one side of the blank it is designated shouldered instead of nosed (Demars and Laurent 1989: 46-7).

Formal types of retouched blades and bladelets specific to the technocomplex have also been identified. One variety borrows nomenclature from the type site and is called an Aurignacian blade. This tool exhibits continuous abrupt retouch and often has a scraper at one end of the blade (Demars and Laurent 1989:78). The Dufour bladelet is distinctive tool form of the Aurignacian technocomplex. This type exhibits retouch on both the lateral and marginal edges of the blade, sometimes complimented with a truncation or burin (*ibid*: 102). The Font-Yves bladelet is another type of formal tool found in levels with Aurignacian occupations, and usually exhibits a continuous direct marginal retouch (Demars and Laurent 1989:104). Other types of blade tools found in the Aurignacian, but not particularly specific to the period, include truncated pieces and non-distinct continuously retouched blades (*ibid*: 76, 82).

Burins are another characteristic of Aurignacian assemblages. There is great variability in the morphology of burins from this period. One example of the variability is the Busqué burin which is only seen in the late Aurignacian. As this burin is created on a thick flake, it creates a surface with multiple burins (Demars and Laurent 1989: 54). Other types of burins found in the Aurignacian are ubiquitous to the entire Upper Paleolithic such as straight, truncated, multiple and burins on a break.

Absolute Dates of Aurignacian Occupations

Absolute dating techniques allow scholars to assign numerical dates to organic materials found in archaeological deposits. Among the most important of these techniques includes radiocarbon dating (Aitken 1990). As the half-life of carbon 14 isotope is known to be 5,730 years, scientists can determine (within a reasonable standard deviation) when the organism died (*ibid*). Radiocarbon dating is the main technique used to obtain absolute dates to archaeological materials from the Aurignacian. The dating of the Aurignacian has become a matter of debate among scholars (Zilhao and d'Errico 1999; Mellars 2006). Some maintain the Aurignacian could not have existed before (uncal.) 36,500 B.P. (Zilhao and d'Errico 1999). Others believe the Aurignacian to be over 10,000 years earlier (Mellars 2006). Radiocarbon dating the period of early Upper Paleolithic remains problematic because it is this period of time which falls at the very limit of the dating technique (approximately 50,000 years). Recent developments in the methodologies of radiocarbon dating and specifically determining the affects of contamination in the samples (Bronk Ramsey et al. 2004) and the formulation of a calibration curves back to 50,000 years suggests pushing radiocarbon dates back approximately 2,000-7,000 years (Mellars 2006: 931). Specifically, this research suggests Aurignacian materials at Willendorf treated for contamination produced dates of approximately 45,000 B.P. (*ibid*). Additional criticism maintains a calibration curve for radiocarbon dating can has not been formulated for material older than 26,000 B.P. (Bronk Ramsey et al. 2006). Specifically, the data from terrestrial and marine records older than 26,000 B.P. used for calibration curves produce inconsistent outcome. Additionally, the miniscule amount of carbon remaining in archaeological material older than 30,000 years (>2%)

is quite susceptible to contamination which can not be fully resolved at this time (Bronk Ramsey et al. 2006).

The date of the Aurignacian technocomplex is highly debated in scholarly journals, but a recently published calibration curve suggests Aurignacian deposits lie within the broad range of 47,000-35,000 B.P. (Mellars 2006). The calibration curve is not universally accepted as argued by Turney et al. (2006), who refute the data. They contest the dates provided by Mellars showing the dated material was mostly charcoal, while the calibration curved was based on advances in preparing bone samples. This suggests the calibration dates offered by Mellars are not as solid a theory as presented in the original article. To sum up the dating of the technocomplex, the Aurignacian technocomplex is present within a range as early as (uncal.) 40,000 B.P. and as late as (uncal.) 24,000 B.P. (Mellars 1987; Cabreras Valdes and Beschoff 1989).

The Aurignacian technocomplex is an example in prehistory where scholars are able to record a pattern of continuity across large geographical areas. There are a number of early dates associated with Aurignacian materials from all across Europe. In Cantabrian Spain, the basal Aurignacian deposits at El Castillo (level 18) yielded accelerator dates of (uncal.) 40,000 +/- 2100, 38,000 +/- 1,800, and (uncal.) 37,700 +/- 1,800 B.P. (Cabrera Valdes and Beschoff 1989: 576). Scholars have also reported very early dates for the Aurignacian in northern Italy. Occupations from Fumane produced a hearth, and Aurignacian materials, dating to (uncal.) 40,000 +/- 4,000 B.P. (Bartolomei et al. 1994). The earliest date for the Aurignacian in central Europe was recovered in Germany at (uncal.) 36,000 B.P from Geissenklosterle Cave. Radiocarbon dating of the earliest level, III, yielded uncalibrated dates of 40,000 B.P. (Hahn 1987: 251). This date is quite controversial as the lithic industry is poor, even though Aurignacian materials at Willendorf II in Austria date to (uncal.) 38,000 B.P. and seem to correlate with an early occupation of this area (Svoboda 1993: 29, Svoboda et al. 1996: 115). Further to the east, Early Upper Paleolithic occupations of Bacho Kiro in Bulgaria produced very early dates, (uncal.) >47,000 B.P., associated with lithic material reminiscent although not identical to that of the Aurignacian (Mook 1982: 168). The earliest Aurignacian appeared in central and western Europe at approximately 40,000 years ago.

The latest Aurignacian appears to have existed until approximately 20,000 B.P. (Svoboda et al. 1996:137). Human remains recovered at Mladec were radiometrically dated to the Aurignacian period (Wild et al. 2005). The remains from multiple individuals proved to be the oldest anatomically human remains in Europe. There is evidence of a persistent Aurignacian in Southern France dating to approximately (uncal.) 24,000 B.P. (Mellars 1987, Rigaud and Simek 1990). Aurignacian-like industries persist at three sites in Austria dating to (uncal.) 25,-20,000 B.P. (Svoboda et al. 1996:137). These sites are an exception as Aurignacian material is absent everywhere else at (uncal.) 28,000 B.P. At that time, the material culture and technology in prehistoric Europe changed. The distinctive Aurignacian scrapers and split base bone points ceased to be manufactured and were replaced by a new technocomplex of tools. This industry which succeeds the Aurignacian is known as the Gravettian and is characterized by distinctive projectile points and Venus figurines.

Aurignacian and Châtelperronien: Whose technology is it?

Currently, debate is transpiring among scholars regarding the relationships between the makers of the Aurignacian and Châtelperronien techno-complexes. The Châtelperronien is one of the transitional techno-complexes existing in Europe during the transition of Middle to Upper Paleolithic. The Châtelperronien techno-complex usually produces dates of between (uncal.) 40,000-28,000 B.P. and limited to the area of northern Spain and France. Archaeological deposits containing Châtelperronien component often contain examples of complex behavior including blade technology and manufacture of bone and antler tools, and body ornamentations (Joachim 2002: 65). Due to the paucity of skeletal remains in Châtelperronien levels, originally it was unclear as to which species created these occupation levels. In 1979, the remains of a Neandertal were recovered in clear association with a rich Châtelperronien industry at St. Césaire (Leveque and Vandermeesh 1980). Upon re-evaluation a molar recovered from the Châtelperronien assemblage at Grotte du Renne, Arcy-sur-Cure exhibit morphological traits reminiscent of an infant (approximately one year old) Neandertal (Hublin et al. 1996). This discovery allowed scholars to more concretely attribute the Châtelperronien to Neandertals.

Although the human remains from St. Césaire allow scholars a base for theory building, it also opens more avenues of inquiry. In the succeeding decades after the discovery, many theories were postulated about how Neandertals came to exhibit such complex behavior. One camp suggests Neandertals were "acculturated" by the in-coming anatomically modern human (Mellars 1989b, 1996). These scholars base this argument partly on the belief that Neandertal did not have the cognitive ability to produce these objects (Chase and Dibble 1987; Stringer and Gamble 1993; Klein 1994). White (1992) supported this theory when he suggested Châtelperronien objects look similar to those of the Aurignacian. He postulates if the Châtelperronien was an independent technocomplex then variability in form would be more pronounced.

Zilhao and d'Errico (1999) suggest Neandertals invented the Châtelperronien independently before the arrival of modern humans in Europe. They provide a thorough discussion of the evidence of acculturation and found the support provided did not stand up to rigorous scientific testing. Important data against the acculturation model are worked pieces of bone and antler in various stages of manufacture found in Châtelperronien levels. Particularly clear evidence of grooved long bones from Grotte du Renne, Arcy-sur-Cure (Mellars 1999: S10). They also conducted a thorough re-investigation into the previously published radiocarbon dates and provided an intriguing evaluation. The uncalibrated radiocarbon dates present a skewed chronology for the Châtelperronien-Aurignacian scheme. Calibrated dates suggest Neandertals completed an Upper Paleolithic revolution previous to the arrival of anatomically modern human populations (d'Errico et al. 1998; Zilhao and d'Errico 1999). Critics of this model suggest the statistical odds of Neandertals independently inventing a technology similar to invading anatomically modern humans are unlikely (Mellars 1998, 1999; Hublin 1999; Gamble 1999).

The "Population Vacuum" model proposes the population of Neandertals in the area decreased dramatically prior to the arrival of the invading population of anatomically modern humans (Conard 2003; Conard et al. 2003). The model suggests there is little support for the coexistence of Neandertal and anatomically modern humans. Evidence for this model was found in the archaeologically sterile levels encountered between the latest Middle Paleolithic and earliest Aurignacian at Vogelherd, Geißenklosterle and Sirgenstein (Conard 2006: 312). Excavations performed in modernity support these statements showing sterile levels between Middle and Upper Paleolithic deposits at each site. Additional research on refitting artifacts supports this model showing minimal refits between levels (this is accounted for by bioturbation). The model maintains discontinuity between the Middle and Upper Paleolithic deposits and in turn supports little or no contact between Neandertal and anatomically modern humans.

Figure 1.1: Map showing the various environments in Europe during the Aurignacian (Huntley and Allen 2003: 80).

An additional model includes three non mutually exclusive theories entitled *Kulturpumpe* (Conard and Bolus 2003). The model presents three opposing theories including: changes in technology and symbolic representation were a direct result of competition between Neandertal and anatomically modern humans, the harsh environment was the catalyst for these changes, or social and demographic changes in the population of anatomically modern humans spurred the technological change (Conard and Bolus 2003: 363). The nature of the relationship between the Neandertal and in-coming anatomically modern human populations is a disputed topic among contemporary archaeologists. It still remains unclear which species harnessed the blade, bone and antler technology first.

Environment in the Périgord during the Aurignacian

Pleistocene Europe is broken into major periods of glacial expansion and retreat. These glacial periods can be further subdivided into periods of harsh cold periods called stadials and warmer periods called interstadials. Deposits of loess (wind blown sediment) provide scholars with auxiliary information on interstadial/stadial cycles. Deposits of loess originate in the periglacial areas directly on the outskirts of the glacier and were blown south. The stratigraphic deposits of loess and lehm soils, which developed during the interstadials provide a framework for the periglacial areas (Laville et al. 1980).

Paleoenvironmental reconstruction includes deep-sea cores and ice cores from modern glaciers. The deep sea core record relies on examining the sediments on the ocean floor. This method assumes the ocean floor has been the site of continuous sedimentation and therefore contains a record of the environment throughout prehistory. Oxygen Isotopes are the key to understanding deep sea cores. The premise lies within the amount of ice or glaciers on earth which is expressed in the differences between $\delta^{16}O$ and $\delta^{18}O$. The lighter of the two isotopes ^{16}O is preferentially removed from water by evaporation. Sediments with more ^{18}O suggest a higher quantity of glaciers on the earth and colder temperatures (Bradley 1985). Scholars have identified the Oxygen Isotope Stages (OIS) 1-5 and the span of time corresponding to the Aurignacian is OIS 3 (Guidot et al. 1989). This period witnessed a slight retreat of the ice and a 30,000 year period of glaciations.

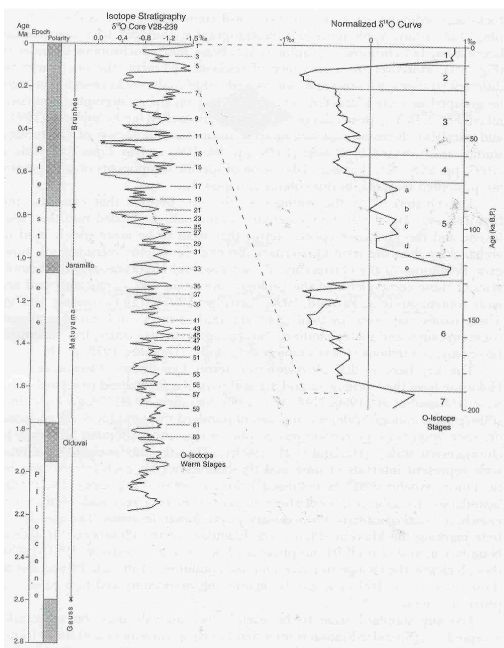

Figure 1.2 Oxygen Isotope record with detail of the late Quaternary (Holliday 2001: 8).

Palynology is the reconstruction of climatic history through plant remains, specifically pollen. This method is based on the fact that climate largely determines regional vegetation patterns. Therefore, series of pollen samples from archaeological sites can facilitate paleoenvironmental reconstruction. Pollen records rely on the scattering of pollen which settles on still bodies of water and remains as a permanent annual record of the environment, known as varves. Based on pollen records at Les Echets and La Grande Pile (both in France), the estimated temperature was approximately 4°C cooler with mean annual precipitation of 200-400 mm less than today's climate (Guidot et al. 1989).

M.-M. Paquereau (1970, 1980) conducted the substantial palynological analysis of southwest France. A synthesis of this research suggests that during the Aurignacian the ground was usually covered by a combination of grasses, sedges and compositae (flowering plants). A variety of trees were present including pine, birch, alder, hazel, willow, and oak. The evidence from vegetation suggests the environment ranged from a taiga to coniferous biome during the Aurignacian period. Although this information is slightly contradicted by modern research on marine core records, Paquereau's pollen analysis is still relevant and must be taken into consideration.

NOMENCLATURE Traditional		New	
WÜRM IV	IX	LATE WÜRM	XXIV
	VIII		XXIII
	VII		XXII
	VI		XXI
	V		XX
	IV		XIX
	III		XVIII
	II		XVII
	I		XVI
Würm Interstadial III–IV			XV
WÜRM III	XIV		XIV
	XIII		XIII
	XII		XII
	XI		XI
	X		X
	IX		IX
	VIII		VIII
	VII		VII
	VI		VI
	V		V
	IV		IV
	III		III
	II		II
	I		I
Würm Interstadial II–III		Würm Interstadial	
WÜRM II	VIII	EARLY WÜRM	XVIII
	VII		XVII
	VI		XVI
	V		XV
	IV		XIV
	III		XIII
	II		XII
	I		XI
Würm Interstadial I–II			X
WÜRM I	IX		IX
	VIII		VIII
	VII		VII
	VI		VI
	V		V
	IV		IV
	III		III
	II		II
	I		I

Figure 1.3: Revised sedimentological scheme documenting environmental change in southwest France (Laville 1988).

Sedimentology is another method scholars have utilized to correlate levels of occupation from the Upper Paleolithic to the stadial/interstadial cycle. Modern excavation techniques usually allow for the collection of soil and /or sediment samples. When viewed under a microscope the relative coarseness of the sediments reveal fluctuations within the climate. Sedimentology continues to provide valuable evidence for paleoenvironmental reconstruction. Laville (1975) conducted an extensive sedimentological study of the Périgord region. In 1980, Laville, Rigaud and Sackett supplemented the original work with completed a valuable examination of the climatic in the Périgord during the early Upper Paleolithic (using the antiquated glaciation scheme of Wurm, Riss, Mindel, Gunz). Through a sedimentological examination of eleven sites, the authors produced a schematic of nine phases of environmental fluctuation (enumerated Perigord I-IX). Each phase was further subdivided into three or four periods due to fine climate change (Laville et al. 1980:228). The synthesis of the sedimentological analysis shows continuous fluctuation between very cold/mild and dry/humid during the Aurignacian (corresponding to the Wurm III or OIS 3). Laville (1988) published a revised version of the sedimentology of the Wurm glaciation. This work divided the Wurm into only two periods, separated by one interstadial. In the revised edition the Aurignacian is placed within the earliest part of the Late Wurm (see Figure 1.3).

Boyle (1990) presented a regional perspective on faunal remains recovered from the Upper Paleolithic of southwest France. This study examined the cumulative faunal data and produced a synthesis of information for each stage of the Upper Paleolithic. During the Aurignacian, reindeer (*Rangifer tarandus*) are found in high frequencies in faunal assemblages in the Dordogne. The research suggests reindeer constitute 86.31% of faunal assemblages from the early Aurignacian and 45.79% in the latter half of the period (*ibid*: 121). The horse (*Equus caballus*) is represented second in the results due to high frequencies of the animal at only one site (Abri Pataud). Other species of large mammals, including red deer (*Cervus elaphus*) and bovid (*Bison priscus* and *Bos primigenius*), are found in Aurignacian deposits. Boar (*Sus scrofa*) and chamois (*Rupicapra rupicapra*) are uncommon in Aurignacian assemblages. Woolly mammoth (*Mammuthus primigenius*) appear infrequently in the Upper Paleolithic record, but most often in the early Aurignacian period and constituting almost 5% (*ibid*: 121-132).

This information was provided as an introduction to Prehistoric Europe at the time of the Aurignacian. The following chapter will present specific information about Termo-Pialat and the theoretical framework through which this research was performed.

Chapter Two: Site History and Theoretical Perspective

Archaeological investigation in the Couze Valley began at the end of the 19th century. During this period the archaeological sites of La Gravette, Les Jean-Blancs, Combe-Capelle and Le Columbier were discovered and excavated (Landesque 1887, Mensignac and Chabanne 1890, Chauvet and Riviere 1897, Chastaing 1905, Coutil 1905, Delage 1912). In 1907, Otto Hauser discovered a human skeleton at Combe-Capelle (Hauser 1911, Montet-White 1973:5). During the years immediately following Le Malpas (Delage 1912), Patary (Peyrony 1908), Mazerat, Fontaine de Gaudonne and Termo-Pialat (Dibble 1995) were discovered. The sites of La Gravette, La Cavaille and Trou du Peyrol were found during the years between World War I and World War II (Dibble 1995). In 1962, Roc Noir and la carrière Rampieux were excavated (de Heinzelin and Fitte 1969).

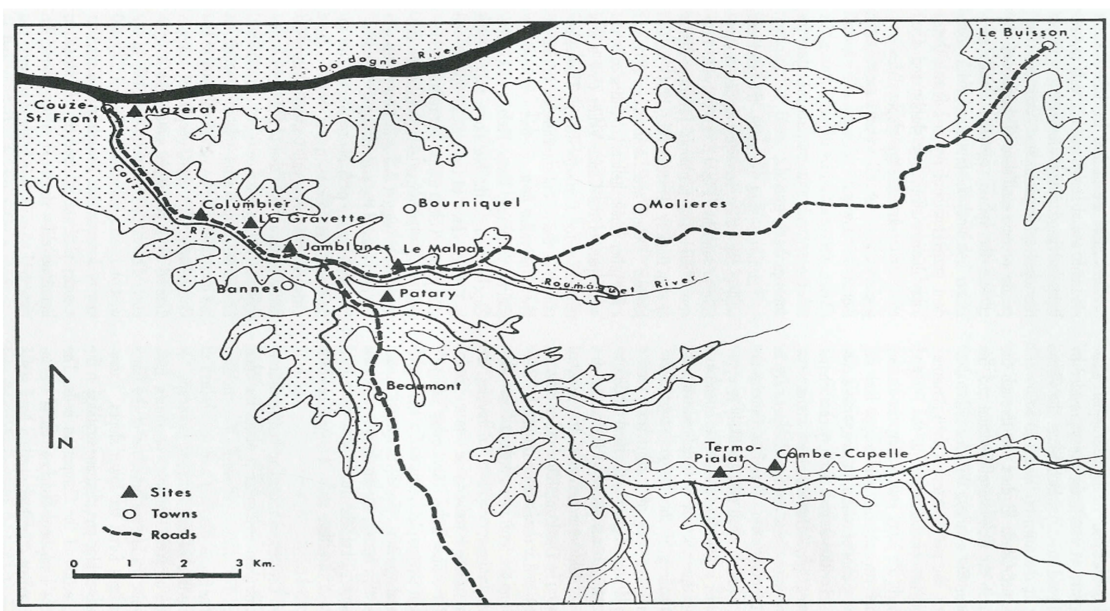

Figure 2.1: A map illustrating selected archaeological sites in the Couze Valley (Montet-White 1973).

Termo-Pialat

Termo-Pialat is an open air archaeological site located in the Dordogne region of France on Highway N 660 between the modern cities of Bergerac and Sarlat (see figure 2.1). The site is located on the north side of Couze Valley in the deposits of colluvium (see figure 2.2 for photo of the valley). Geological formations in the valley are composed of bedded Campanian limestone covered by Maestrichtian limestone. Slope deposits congregated at the base of the valley walls and the floor consists of floodplain alluvium deposited during the Holocene (Speer 1968; Montet-White 1973). The Couze River begins between the towns of Bouillac and Fongalop and flows west and then northwest for 32 km where it pours into the larger Dordogne River at the town of Port-de-Couze.

Figure 2.2: Photo of the Couze Valley (http://www.tc.umn.edu/~aubau001/stagepavin.html)

In 1911, Termo-Pialat was discovered by landowner M. Janicot. The next year, A. Délugin and R. Tarel (with abbé Chastaing) excavated the site and recovered lithic materials which they attributed only to the Aurignacian, although several micro-Gravettian points were included in the report. The excavators recognized only one stratified level of occupation at that time. It was the presence of the numerous Aurignacian scrapers (Nosed and Carinate) which prompted them to attribute the material to the Typical Aurignacian (Dibble 1995). All the material collected during these excavations is currently curated in the Feaux Collection at the Musée du Périgord in Périgueux.

During the course of the 1912 and 1913 excavations, two engraved limestone blocks were found in the disturbed soils from Janicots' excavations. The first block is engraved with two figures and in relatively good condition. The first figure on the block is a voluptuous female shown in profile with a complete rendering of the head, torso and buttocks and broken off at the mid thigh. Behind her is an ambiguous figure with a well-defined head but no obvious indication of gender (see Figure 2.4). The other block has a very faint engraving of a quadrupedal animal which has not preserved very well (see Figure 2.3). Unfortunately, this particular piece has been lost and is no longer a part of the original collection.

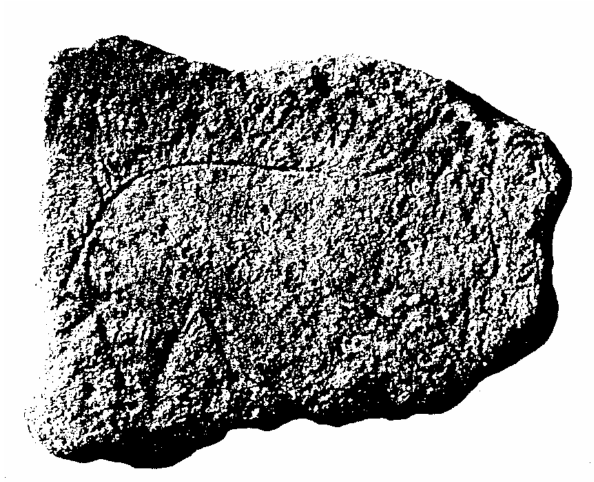

Figure 2.3: Engraved Block of a Quadrapedal Animal from Termo-Pialat (Delluc and Delluc 1978: 375).

Due to the provenience of the items, the stratigraphic context is tenuous. Breuil originally attributed these art objects to the Aurignacian period (Delluc and Delluc 1978: 373-377). Later scholars believe them to be products of the Gravettian (Leroi-Gourhan 1965, Sonneville-Borde 1970, Delluc and Delluc 1978: 373-377).

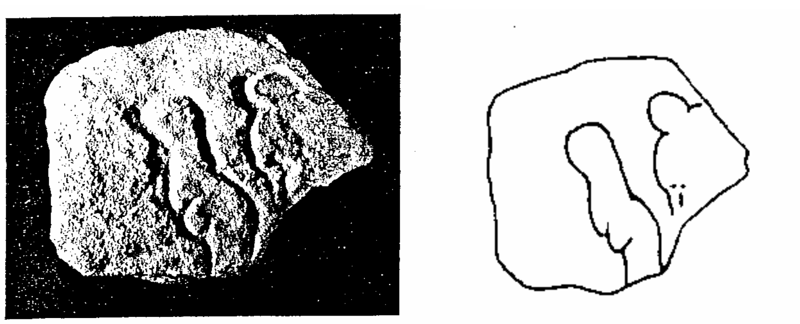

Figure 2.4: Engraved Representation of Two Humans from Termo-Pialat (Delluc and Delluc 1978: 375).

In 1954, F. Bordes and P. Fitte visited Termo-Pialat and discovered a number of Noailles burins. This was the earliest discovery of an Upper Perigordian component at the site. D. Sonneville-Bordes addressed Termo-Pialat in the opus that served as her doctoral dissertation: *Le Paléolithique Supérieur en Périgord* (1960). For this synthesis, she re-examined the material from Termo-Pialat housed at the

Musée de Périgord. She also recognized the Noailles burins and reported an Upper Perigordian (Gravettian) component (Sonneville-Bordes 1960: 115).

In the summer of 1966, Anta Montet-White of the University of Kansas conducted an investigation of Termo-Pialat in conjunction with an archaeological survey of the Couze Valley. La Malpas and La Fountaine de Gaudonne were also visited briefly during this season. The team spent a total of three weeks at Termo-Pialat excavating a three meter square test unit using the vertical excavation technique. The reason for the visit was to determine the stratigraphic sequence at the site in light of the recent reports of Noailles burins by Bordes and Fitte. Brief reports of the 1966 excavation describe the stratigraphy as such:

> "Zone 1: A cemented formation of yellowish, sandy-clay mixed with large to medium rock fragments. This zone yielded no artifacts.
> Zone 2: A reddish-brown fill, probably deposited under humid and cool climatic conditions contained an abundant industry of the late Périgordien phase characterized by the abundance of Noailles burins (Périgordien Vc).
> Zone 3: Irregular accumulations of large blocks and rock fragments in a sandy fill associated with a blade assemblage attributed to the Périgordien IV.
> Zone 4: Small éboulis containing a middle Aurignacian industry with carinate and shouldered scrapers as well as a large proportion of burins.
> Zone 5: Thermoclastic deposits associated with an earlier Aurignacian component characterized by retouched blades and a specialized form of burin (burin busqué)" (Montet-White 1969:618).

The author notes the presence of a layer of topsoil (zone 1) which sealed the archaeological deposits and protected them from various type of bioturbation (Montet-White 1969:618). None of the articles or the field notes describes the thickness of each level. Additional information regarding stratigraphy and the archaeological levels was found in original excavation notes (see Figure 2.5):

> "Zone A: 30-35 cm. of a dark reddish earth; recent origin.
> Zone B: a thin post-Pleistocene erosional surface; indurated paleosol from the level immediately below.
> Zone C: upper 25-35 cm is heavily indurated, yellowish-brown clay, with traces of pseudo-mycelium. The lower portion is less indurated, but a similar sandy clay including medium to large-sized limestone fragments or éboulis.
> Zone D: reddish-brown sandy clay, with smoothed slabs and fragments; found in pockets behind large boulders throughout the level; the deposit was probably washed before the deposition of the above levels; Upper Périgordien occupation levels.
> Zone E: 10 to 15 cm concentration of large rolled rocks and boulders (éboulis) with yellowish-brown clay matrix; archaeological level L.
> Zone F: thick (1.5 m) accumulation of yellowish-brown clay, with small fractured rocks becoming progressively more angular toward the bottom. This includes the archaeological levels M and N" (Speer 1968: 8).

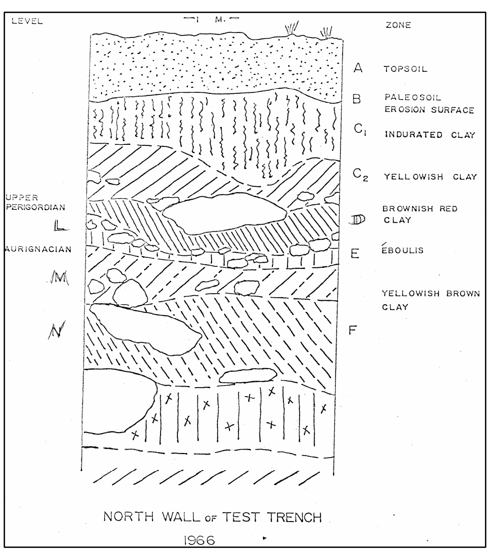

Figure 2.5: Profile Map of the 1966 Excavations at Termo-Pialat directed by A. Montet-White (Speer 1968:5).

The 1966 excavations produced a stratigraphic profile and introduced the Périgordien level. The surface scatter of artifacts is present on a plateau on the lip of the valley and continues down the slope almost to the valley floor. The width of the surface scatter has been estimated at about 20-25 meters across (Speer 1968: 1).

This collection has a number of limiting factors. During recovery of material, penetrating or vertical excavation techniques were used. This form of excavation was beneficial for the particular research design, specifically the investigation of stratigraphic deposits of material. This type of excavation does not account for any horizontal spatial data for the relationships between artifacts within a particular archaeological level. This eliminated the need for artifacts being plotted individually or gathering data about horizontal associations. The assemblage is limited to entirely chipped stone therefore no bone or antler tools were recovered. The limitations produced by the recovery of the assemblage prevent some analysis from being performed.

Theoretical Consideration

All scientific research must be grounded within theories that help design and define the purpose and goals of the research. For the current project, the research design was devised utilizing culture process or processual archaeology and *chaîne opératoire*. Processual archaeology seeks to understand why culture changes or the *process* of culture. This paradigm is the basis for modern scientific archaeology (Binford 1972). The *chaîne opératoire* is a method which breaks down into stages the life history of artifacts from procurement of raw material to discard or loss (Geneste 1985). Within the study of chipped stone material from the Paleolithic of Europe typological analysis is constant and a discussion of the subject is complimentary to any project.

Typological Analysis

Typology, or categorization by similarities in morphology, has been a significant aspect of lithic studies since the inception of the field. Historically, typological analysis has been a common method of chipped stone studies of Paleolithic Europe. More recently, scholars have questioned the authenticity of the categories of formal tool types. Integration of functional analysis of lithic tools is utilized in testing the specific actions performed by tools against the implied function of the formal types. The results question the usefulness of the current typology for functional analysis.

The most widely accepted typological model utilized for categorization of Upper Paleolithic materials was devised by Sonneville-Bordes and Perrot (1954-6). Other typologies were developed (Laplace 1961; Brezillion 1968), but no model has replaced the earlier Sonneville-Bordes and Perrot model. This system introduced a type-list of 92 varieties allowing standardization of terminology and comparison of tool assemblages. Since the original publication, the type-list has been altered to include 105 tools. The method employed histograms, cumulative graphs, and a number of calculated indices to describe assemblages for comparison with other sites (Sonneville-Bordes and Perrot 1953). This arrangement of tools was admittedly based on and developed from F. Bordes' (1950, 1961) typology of Lower and Middle Paleolithic material (Sonneville Bordes and Perrot 1953: 323). Sonneville-Bordes established a framework for her method when she published *Le Paléolithique Supérieur en Périgord*, an extensive compilation of cumulative graphs and indices from known Aurignacian and Gravettian sites from the Périgord of southwest France. This work allowed a great advance in regional comparison within the type-list method. The type-list has been employed as a method of assemblage description and comparison (for examples Delporte 1984, Chiotti et al. 2003).

Results of use wear analysis suggest functional determinations of tools attached to Sonneville-Bordes and Perrot (1954-6) typology are not necessarily accurate. Advances in methodology in functional studies allow archaeologists to determine actions performed by tools. A catalyst for the question is regular application of use-wear analysis (Semenov 1964, Keeley 1980). This method allows researchers to examine polish left by the activity the tool was used for. Polishes left on the edges of stone tools are identifiable as to material. Scholars performing use-wear analysis on Upper Paleolithic materials found the classification unsatisfactory compared to results of use-wear analysis. The concept of a burin was discredited when use-wear was performed as results often showed a multi-tasking tool rather than a single purpose graver (Symens 1986, Tomaskova 2005). Additionally, other studies produced large numbers of burins with no wear at all leading scholars to suggest a burin was actually a rejuvenation of an edge versus production of a beveled tip (Plisson 1985, Vaughan 1985). Another tool type which has come into question is the carinated burin. Refitting activities show these items to be sources of bladelets specific to those required for Dufour blades; lack of wear polish supports the carinates as bladelet cores theory (Le Brun-Ricalens and Brou 2003). Carinate scrapers from Le Flageolet I were investigated in a similar fashion with analogous results, the 'scraping edges' had no polish consistent with scraping (Hays and Lucas 2000). The result of these investigations suggests Sonneville-Bordes and Perrot typology do not represent the function of the tool.

Processual Archaeology

In 1958, Willey and Phillips declared "so little work has been done in American archaeology on the explanatory level that it is difficult to find a name for it" (5). Willey and Phillips suggested the solution to this problem was a wider interpretation of the processes of change in social systems. Prior to this, the main goal of archaeological inquiry within culture history was to place material within a time-space framework. Culture history was restricted to basic description of prehistoric materials and then positioning it in time and space. In addition to Willey and Phillips (1958) another catalyst for change in archaeological scholarship was a series of articles published by L. Binford in the 1960's entitled *Archaeology as Anthropology*. Building on cultural ecology (Steward 1955) and culture as an extrasomatic adaptation (White 1959: 9), Binford's work introduced to archaeology the concept of culture as a system composed of multiple sub-systems (1962: 218). Binford extrapolates three such sub-systems from culture: social, technological, and ideological (*ibid*: 220). He suggests, through examination of these sub-systems and their relationships, archaeologists can re-create ancient cultural systems. Moreover, archaeological inquiry should be preoccupied with determining what the evolutionary processes behind the change are in the system (*ibid*: 225). In order to examine these problems, Binford used hypothesis testing and a scientific approach to the study of archaeology. Although the original three sub-systems are not commonly used today, the article was an early call for change from culture history to processual archaeology.

Binford found influences in the works of Julian Steward and Leslie White. Steward's work was dedicated to investigating the relationship between environment and culture. His paradigm suggests there is an intimate connection between the environment and the evolution of a particular culture. He argued the environment places certain limitations on aspects of a culture living within it, which affects the core components of that culture. The environment can influence the evolution of a culture (Steward 1955). The scholarship put forth by Leslie White also had a heavy influence on Binford. White suggested that culture was an extrasomatic adaptation that humans had to help them better deal with the environment. This means simply something that is outside the physical body of humans (White 1959: 9). An example of this from the Paleolithic period would be a stone tool with a sharp cutting edge. This object allows humans a variety of tasks previously unavailable with just the physical human form. It is through these objects or material culture that archaeologists can track cultural evolution.

Processual archaeology eventually became the primary framework through which scholars were practicing archaeology. Methodologies changed to accommodate new research designs such as collecting all objects recovered in archaeological context including micro-debitage. Binford expanded his ideas to include middle-range theory which promoted theory building to close the gap between the material culture or products of the ancient society and the meanings of the behaviors which created the artifacts. The method for success with middle range theory was to observe modern hunter-gatherers and apply their behaviors onto the archaeological record. One well known ethnoarchaeological study was Binford's work among the Nunamuit groups in the Artic (Binford 1978).

Chaîne opératoire

The epistemology of the *chaîne opératoire* includes both archaeologists and cultural anthropologists. Brezillion (1968) first used the phrase in archaeological literature to describe the production of a Levallois flake, but did not provide a full definition of the concept. Leroi-Gourhan (1943, 1945) fully explained the meaning of today's concept, but did not use the exact phrase of *chaînes opératoire*. Leroi-Gourhan, along with Mauss (1947, 1968), were instrumental in the formation of the model due to their interest in the role of cognition within technology. Schlanger (1994) also points to Bordes and Tixier's interest in flintknapping and replication of technology as contributing to the genesis of the model. *Chaîne opératoire* was under-utilized as a paradigm in scientific inquiry, until the 1980's when it resurfaced in archaeological literature (Geneste 1985, Pelegrin et al. 1988). Today, the *chaîne opératoire* is common among both French and English researchers (for example Dobres 1992; Bleed 2001; Chazan 2001; Hays and Lucas 2001).

Chaîne opératoire is a paradigm allowing the reconstruction and examination of technological systems at archaeological sites. This encompasses all processes an artifact encountered prior to discard, including raw material procurement, manufacture, use, and maintenance. "At base, a *chaîne opératoire* describes the technological operations that bring a raw material from a natural state to a manufactured one" (Bleed 2001:105). An important aspect of inquiry through a *chaîne opératoire* is identifiying stages of production. For example, a *chaîne opératoire* is "…a chronological segmentation of the actions and mental processes required in the manufacture of an artifact and in its maintenance into the technical system of a prehistoric group" (Sellet 1993: 106) or "the totality of technical stages from the acquisition of raw materials through to its discard, and includes the various processes of transformation and utilization" (Boeda 1995: 43).

There are a number of benefits in using *chaîne opératoire* as a model for scientific inquiry. An advantage to this model is, researchers are able to gather data on three levels of inquiry. The first level is the artifacts, the second is the physical actions needed to produce the artifacts, and the third is the knowledge needed to produce the artifact (Lemmonier 1986; Pelegrin et al. 1988: 55). This allows researchers to gather various types of data on multiple levels from a single assemblage of materials. Another advantage of *chaîne opératoire* as a model is it can be applied to limitless varieties of technical systems. Currently, the model has been applied not only to chipped stone but also bone and antler tools and art objects (Knecht 1991, 1992, 1993). Lemonnier (1992: 25) suggests an important advantage to the *chaîne opératoire* is it provides a simple model for the explanation of technical systems. Additionally, the plasticity of the model is a great advantage to researchers allowing for all types of chains ranging from modest to highly intricate (Bleed

2001:105). There are a number of advantages when examining archaeological material within the *chaîne opératoire*.

There are three types of research to perform in order to investigate the *chaîne opératoire*. These methods have been described as "refitting, diacritical studies (studies of flaking sequences), and experimentation" (Sellet 1993: 109). Refitting allows a reconstruction of the actual reduction sequences in an assemblage. Fracture refitting includes matching broken pieces while debitage refitting pieces together debitage and cores. A diacritical study explores reduction sequences through chronology, count and orientation of dorsal scars. Finally, *chaîne opératoire* is studied by experimentation and flintknapping. This method is optimal because it re-creates the debitage under study and allows modeling of reduction sequences. In essence, one could produce flakes similar to those in their assemblage and consequently understand where in the reduction sequence it is located.

The *chaîne opératoire* is a complement to processual archaeology in that it provides a means for describing the assemblage and scientifically study the technology and change over time. Data collection on debitage allows for an examination of attributes which build common reduction sequences. These reduction sequences can then be examined for variability which may reflect a change over time.

The purpose of this chapter was to give background information regarding the history of the site and specific theoretical paradigms utilized for this research. The information presented consists of the history of excavation in the Couze Valley and stratigraphic determinations of Termo-Pialat itself. Also a discussion of the two main theoretical frameworks this research was conducted through was included: processual archaeology and the *chaîne opératoire*. This discussion allows for a better understanding of the topic as this work proceeds to the next chapter.

Chapter Three: Methodology

This chapter explains the methodology used for analysis of the lithic material recovered from levels L and M at Termo-Pialat[1]. Levels N and D were not included in this study in order to complete this research in a timely manner. There were three basic goals to the analysis. The first was to place each piece of chipped stone within a relative *chaîne opératoire* achieved through individual flake analysis (IFA). The second was to identify and classify formal tools according to the typology devised by Sonneville-Bordes and Perrot (1954-6). The final goal was to compare the results of each level to each other and also to other assemblages from sites in southwest France.

Typological Analysis

The second goal of this study was typological categorization of formal tools. This was done visually with the assistance of visual representations in books (Piel-Desruisseaux 1986, Demars and Laurent 1989, Sonneville-Bordes and Perrot 1954-6). Initially, some tools were identified from the drawings completed by J. Speer (1968). Tools were tentatively identified during analysis and set aside for secondary inspection with an experienced lithic analyst (I. Radovanovic). When final approval was given the item was identified by the number given in Sonneville-Bordes and Perrot (1954-6) typology and entered into the table of formal tools in each level.

Debitage Analysis

As material from both levels totals over 2,000 pieces, basic organization was essential to successfully collecting these data. Information gathered in this study was

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[1] This analysis took place over the course of two years, beginning in February 2004 and concluding in July 2006.

first recorded on paper and later transferred to an electronic database. Each piece was assigned a number which was written on the item in graphite pencil for basic organizational purposes. All chipped stone with retouch were drawn on 3x5 index cards to facilitate re-locating specimens after the primary evaluation. Finally, material included in the study was stored in small boxes by specimen and presence or absence of retouch. This basic organization of collection allowed me to expediently return to specific pieces when needed. Before analysis began a preliminary evaluation was completed in order to determine basic information about the collection in terms of location of formal tools, number of pieces, condition of the materials, and prior organization of the collection. I determined the collection was in good condition and appropriate for the current project.

A number of steps were completed in order to allow for the collection of data in a timely manner. The collection had previously been used for the instruction of classes so mixing of the materials from distinct stratigraphic levels was a possibility. Fortunately, Museum of Anthropology personnel took pains to keep material from different levels separate. As an extra cautionary measure, I decided at the inception of the project only those pieces with level designation labels would be included in the debitage analysis. Items disqualified from debitage analysis due to lack of denomination of level were all less than five millimeters in size.

Material included in this study was chipped stone recovered from levels L and M from Termo-Pialat of which every piece was examined for a number of attributes on both the ventral and dorsal faces. When examining each item of chipped stone from an assemblage it is termed Individual Flake Analysis (IFA). The data were recorded in a Microsoft Excel spreadsheet with a series of codes for each attribute examined. A complete list of codes is located in Appendix A.

The attributes on the ventral side of the flake that were recorded include the striking platform and bulb of force. Both the striking platform and bulb of force was documented not only for presence or absence, but also morphology. The striking platform is the place on the flake where it was struck to remove it from the core. Striking platforms were categorized as flat, angled, ridged, faceted, crushed, flaked-off, cortical or indeterminate. A platform was recorded as flat when the entire surface appears smooth and perpendicular to the rest of the item. The platform was recorded as angled when the surface was flat but appears angled in relation to the rest of the flake or blade. A platform with one ridge observed was recorded as simply ridged and those platforms with multiple ridges were recorded as faceted. A crushed platform was noted when the item presents with a clear bulb of percussion but the area where the platform was supposed to be was shattered by the percussor. Indeterminate platforms were separated into those that are simply undeterminable and those that are indeterminate due to retouch. Bulbs of force are categorized on a relative basis. A prominent bulb of force presents a localized thick bulb while diffuse bulb is described as thinner and wider.

On the dorsal side of the item, the amount of cortex and dorsal scars were recorded. The amount of cortex on the artifact was described as none, 1-25%, 26-50%, 51-75%, 76-99%, and 100%. In addition to amount of cortex, dorsal scar orientation was also recorded. Dorsal scars were described as originating from the proximal edge (1), left edge (2), right edge (3), or distal edge (4) directions (see Figure 3.1). This will allow a rough count of the dorsal scars present on the item and contribute to determining trends of the *chaîne opératoire* of the assemblage.

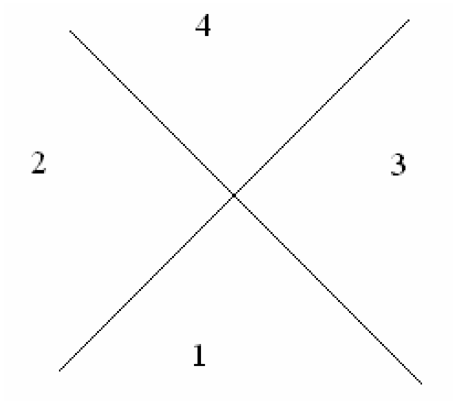


Figure 3.1: Explanation of the dorsal scar coding system: proximal is at the bottom and distal is at the top.

Attributes such as flake termination, size and portion were also examined and data describing them was recorded. Flake terminations were categorized according to types including: normal, hinge, step, outré passé and axial (see Figure 3.2). A normal termination was noted when the edge of the item was thin and sharp. The termination was classified as hinged when the edge was rounded. The termination was classified as step when the edge appeared. An outré passé was noted when the item presented with a curve. Axial terminations were noted when it is clear the force has carried all the way through to the opposite side of the core. Finally, when an item presented with more than one type of termination both types were noted. In the final analysis these are all grouped together as composite. Length, width and weight were also recorded for each item. The length was measured as the longest part of the item from the bulb of percussion to the termination. A second measurement was taken for the longest portion of the piece which is perpendicular to the length and was categorized as the width. Both the length and width were measured with digital calipers in millimeters. Additionally, the weight of the item was collected with a digital scale in tenths. The portion category recorded if the piece was broken or complete. The broken items were identified as to which part of the original flake or blade is represented. They were classified as proximal end, distal end or midfragment. When the item presented a striking platform and bulb or force without a natural termination it was termed proximal. When the item presented no platform or bulb of force but did possess a natural termination it was classified distal. An item possessing neither striking platform and bulb of percussion nor a natural termination was labeled a midfragment.

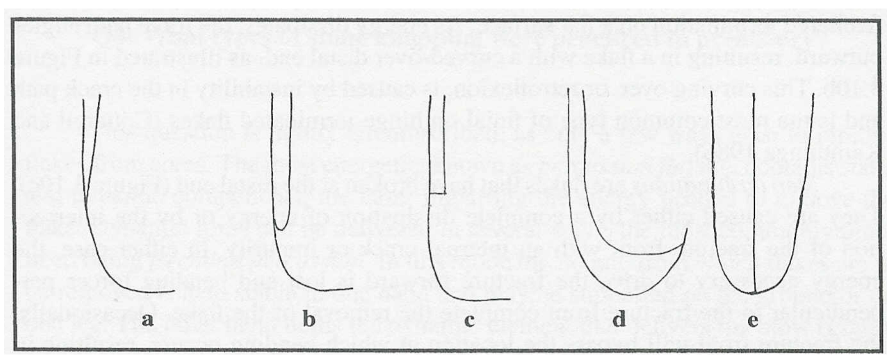


Figure 3.2 Type of Terminations: a) normal, b) hinge, c) step, d) outré passé, e) axial (Odell 2004: 57).

A small amount of data regarding raw material was recorded due to the homogeneity of raw material in the assemblages. Termo-Pialat is located very close to a quality source of Senonian gray chert (Blades 2001: 142). Upon preliminary analysis of the collections it was apparent that the majority of pieces are made of this particular chert type. Due to the overwhelming homogeneity of material in the assemblages, it was only noted when lithic material appeared dissimilar to Senonian chert.

Data regarding the extent of retouch on specimens was considered integral and recorded. During initial examination of the item, a determination was made as to whether or not it is retouched. When retouch is present, the item will be included in a separate database with information regarding amount and type. All four edges (proximal, distal, right and left) of each item were examined for presence or absence of retouch. Retouch on the junction of edges and corners were lumped with the left and right edges. The retouch was described as partial, continuous, or discontinuous. Retouch classified as continuous was seen along the entire edge of the item. Discontinuous retouch was recorded when the retouch was located in different areas on the edge, but not fully retouched. A retouched edge categorized as partial only has retouch in one area. Types of retouch were based on the angle in relation to the face of the artifact and labeled as abrupt, raised or normal. Retouch appearing at a 90° angle was categorized as abrupt. Retouch appearing at an angle between 60° and <90° was classified as raised. Retouch that appeared at an angle that was less than 60° was recorded as normal (see Figure 3.3). These data were recorded in a secondary database to allow for organization and facilitate analysis.

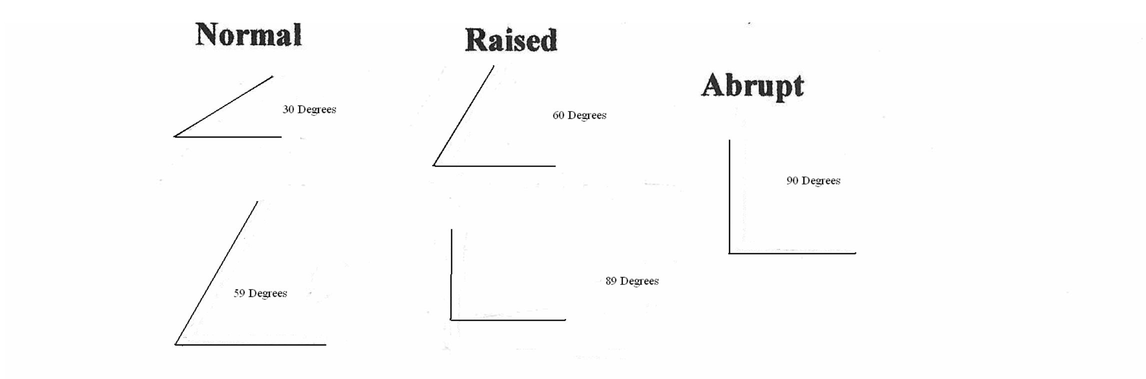


Figure 3.3: Types of Retouch Angles

When the data from the IFA were fully collected and entered I transferred them into Microsoft Excel. I performed descriptive statistics on the data to evaluate the frequencies of different types of each attribute. Specifically, I used the "filter" function within the database to group together and count the frequencies of each type in the different columns. For example, this allowed me to easily count how many times I had entered the specific code for each type of platform. This was an efficient way of extrapolating basic trends of each attribute and consequently showing the nature of the entire assemblage. I constructed comparison graphs of the frequencies of all attributes and characteristics of retouch. I performed the chi-square test for independence on technological attributes and retouch data in levels L and M.

This chapter explained the methods used for the analysis of chipped stone material in Levels L and M at Termo-Pialat. These methods allowed for the collection of data that allowed a description of the assemblage in terms of stages of reduction and tool manufacture. These data facilitate a discussion of the assemblage in terms of its own *chaîne opératoire*.

Chapter Four: Results

The purpose of this chapter is to explain the results of the debitage and retouched tool analyses of the Termo-Pialat assemblages. First, the outcomes for the debitage will be presented separately for both levels L and M. Secondly, data collected regarding the amount and types of retouch will be presented for both levels. Finally, the total number of all types of tools at Termo-Pialat will also be provided.

Debitage Analysis: Level L Results

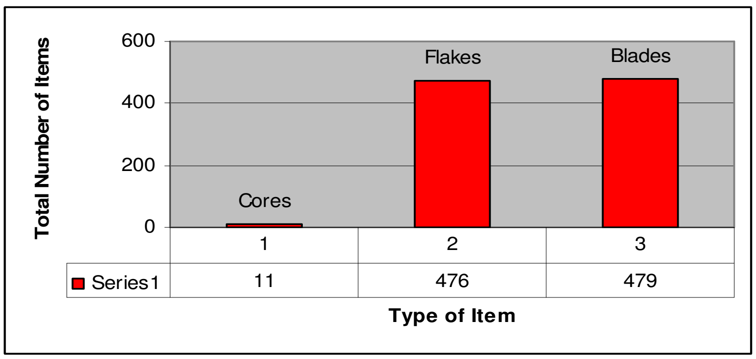


Figure 4.1: Frequency of Flakes, Blades and Cores in Level L

The total number of items included in debitage analysis for level L was 966. The total number of flakes, blades and cores are summarized in Figure 4.1. The results show there are relatively few cores and a relatively even number of blades and flakes. The exact number of cores was eleven; while the number of flakes was 476 and the number of blades was 479. Included in the number of flakes is 28 core rejuvenation flakes. Cores make up 1.1% of level L while flakes and blades constitute 49.2% and 49.6% respectively.

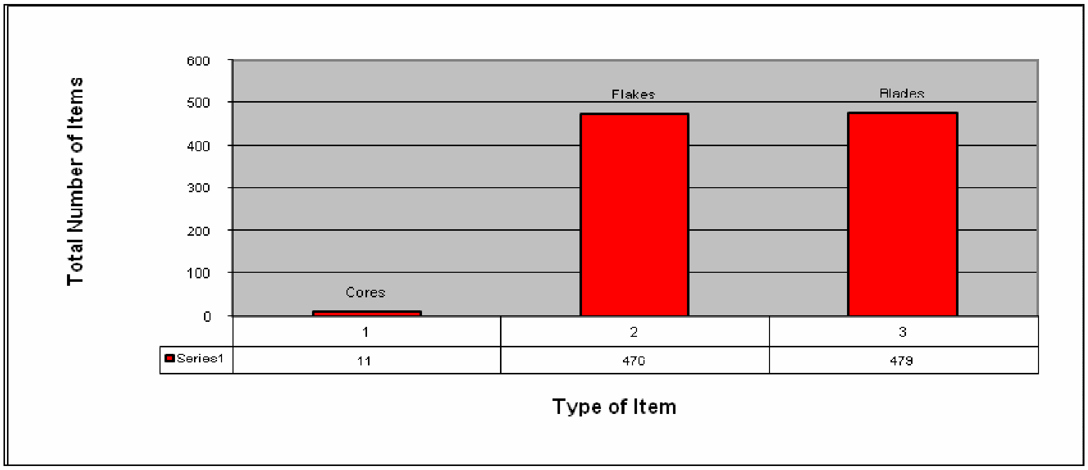


Figure 4.2 Percentages of Cores, Flakes and Blades in Level L

A total of eleven cores were recorded in level L at Termo-Pialat. There were three types of cores represented in level L: multi-directional, bi-directional and uni-directional. A total of five cores in level L were multi-directional, which amounted to 45.5% of all cores in level L. There were two cores classified as bi-directional which amounted to 18.2% of all cores in level L. A total of four cores were uni-directional which amounted to 36.3% of all cores in level L. Illustrations of all three types of cores are provided in Appendix B.

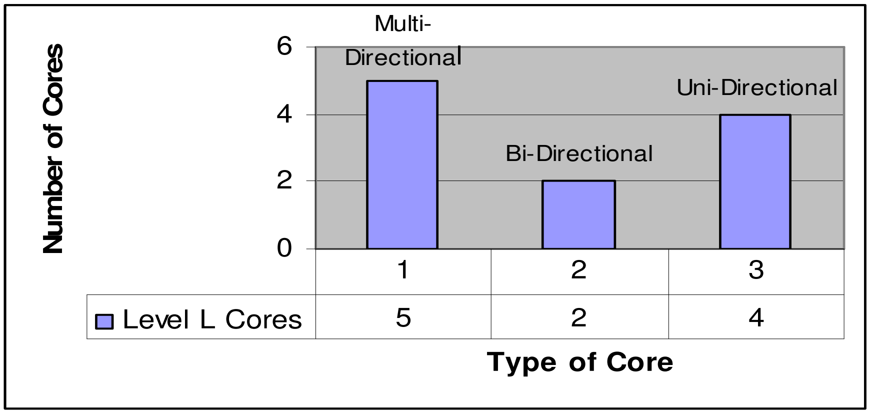


Figure 4.3: Frequency of Types of Cores in Level L

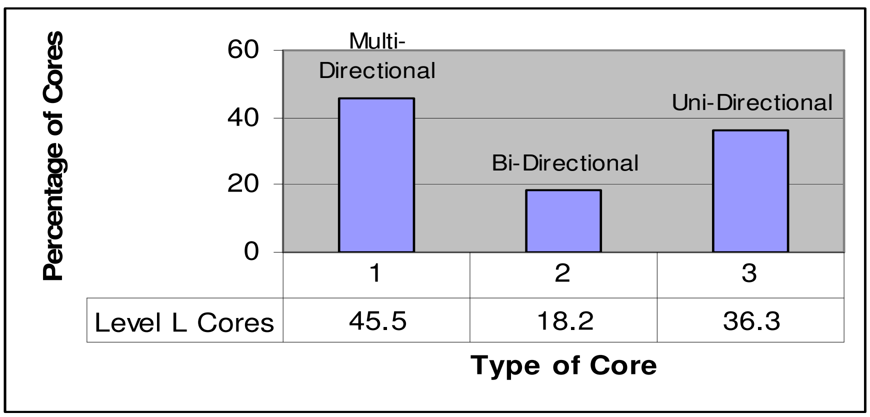


Figure 4.4: Percentage of Types of Cores in Level L

The next attribute to be discussed is the segment of each item (see Figure 4.5 and 4.6). The term segment describes whether or not the item is complete or broken. The number of complete flakes in level L was 136. The total number of flakes categorized as proximal was 122, flakes classified as distal was 139 and here were a total of 79 flake midfragments. The total number of complete blades in level L was 57, with 122 items proximal blades, 154 distal blades and 146 midfragments.

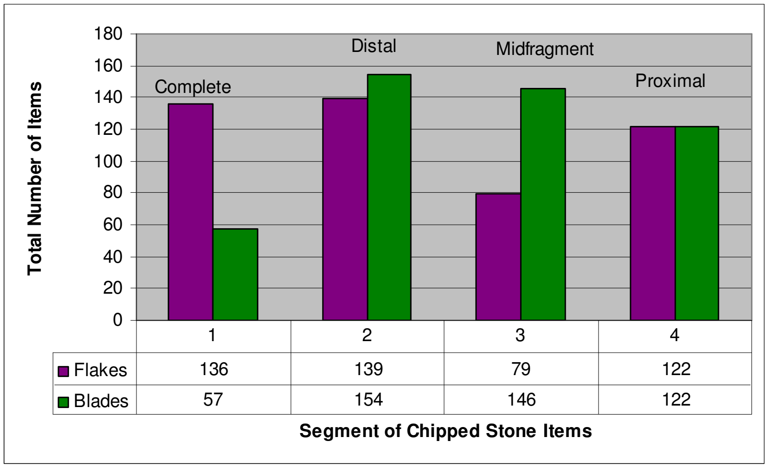


Figure 4.5: Frequency of Segment in Level L

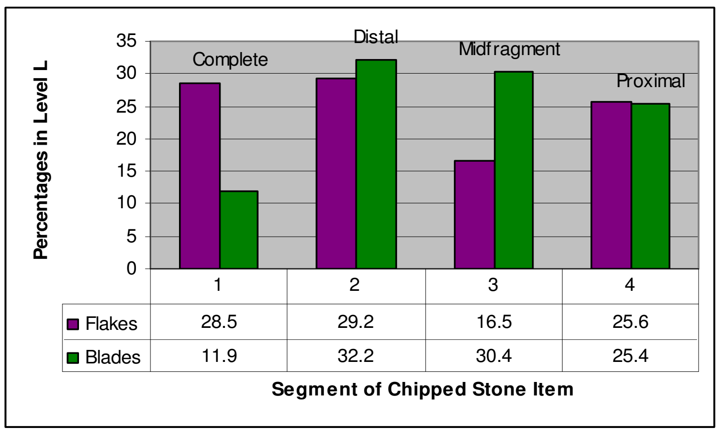


Figure 4.6: Percentages of Types of Segment in Level L.

Presence and absence of dorsal cortex in level L is the next attribute discussed (see Figure 4.7 and Figure 4.8). There are a total of 207 flakes recorded with no cortex in level L. A total of 146 flakes had 1-25% cortical cover on the dorsal side. The number of flakes with 26-50% cortex was 35. Items showing 51-75% cortex on the dorsal face was 18, and flakes showing 76-99% was 29. There were 41 flakes that presented a dorsal face entirely covered (100%) with cortex. The number of blades with no cortex in level L was 307. The number of blades with 0-25% cortex was 104.

There were 27 blades presenting 26-50% cortical cover. The total number of blades with 51-75% cortex was sixteen while thirteen presented 76-99% cortex. Finally, the total number of blades with 100% cortex was twelve.

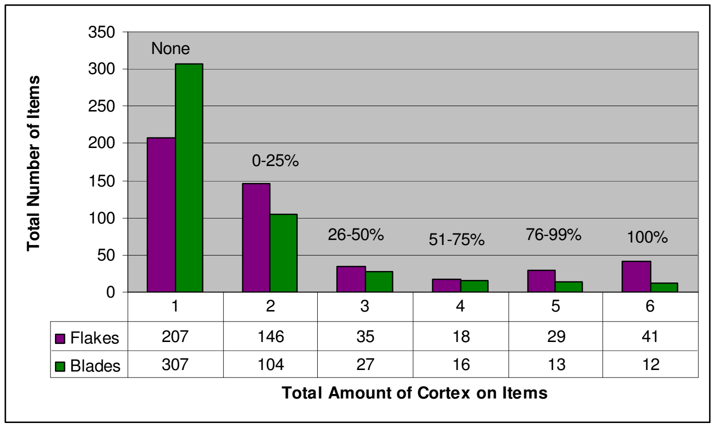


Figure 4.7: Description and Amount of Dorsal Cortex in Level L

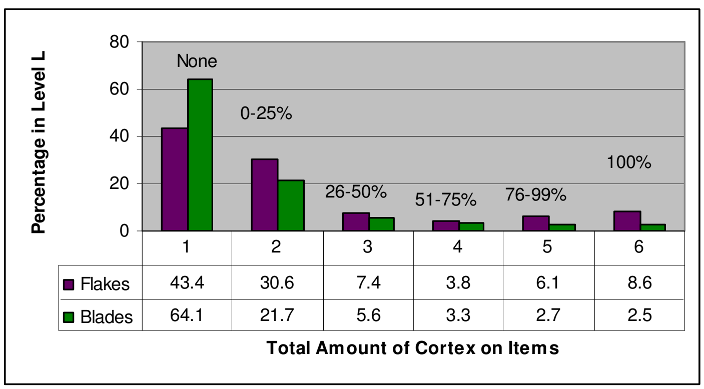


Figure 4.8: Percentages of Dorsal Cortex in Level L

The data collected about striking platform for level L will now be presented (see Figure 4.9 and Figure 4.10). The number of flakes possessing striking platforms was 233 while 243 did not. Of the blades, 172 were recorded with a striking platform while 307 lacked a striking platform.

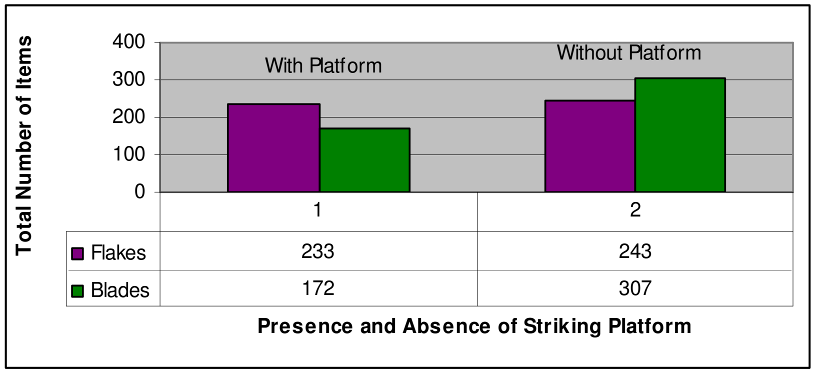


Figure 4.9: Frequency of Striking Platform in Level L

Specimens presenting with striking platforms were classified as to platform type specifically: angled, flat, ridged, crushed, cortical, faceted and indeterminate. The data about striking platforms on flakes in level L are presented first (see Figure 4.11 and Figure 4.12). The most numerous types of striking platforms on flakes were angled totaling 114 items and flat totaling 85 items. There were eight flakes in each the crushed and cortical categories.

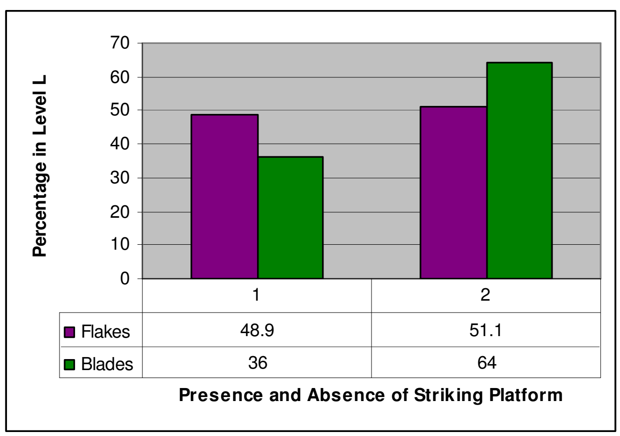
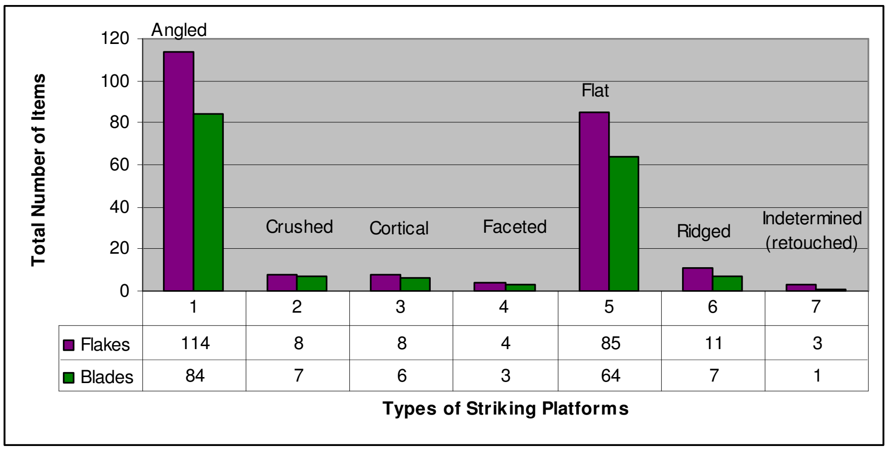


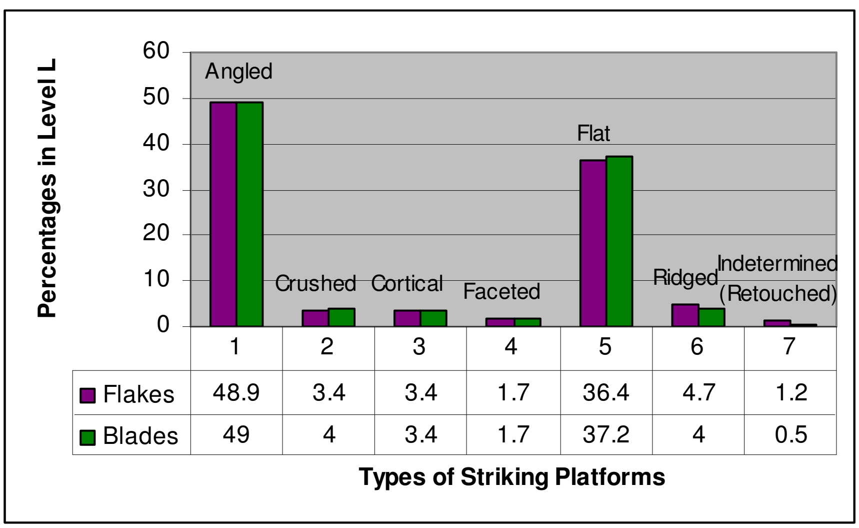
Figure 4.10: Percentages of Striking Platform in Level L

There were four flakes with a faceted striking platform while eleven presented a ridged platform. Three flakes had striking platforms that were indeterminable as to type due to retouch. As with the flakes, angled platforms were most common on blades with 84 while 64 were flat. The crushed platforms on blades totaled seven while six blades possessed cortex. Three blades in level L had faceted striking platforms while seven blades had ridged striking platform.



	1	2	3	4	5	6	7
Flakes	114	8	8	4	85	11	3
Blades	84	7	6	3	64	7	1

Figure 4.11: Frequency and Types of Striking Platforms in Level L



	1	2	3	4	5	6	7
Flakes	48.9	3.4	3.4	1.7	36.4	4.7	1.2
Blades	49	4	3.4	1.7	37.2	4	0.5

Figure 4.12 Percentages of Types of Striking Platforms in Level L

Data collected regarding the bulb of force for each item in Level L will now be presented (see Figure 4.13 and Figure 4.14). The number of flakes that exhibited a bulb of force was 237. Of those, 154 bulbs on flakes were prominent, 71 were diffuse and 12 were flaked off. The total number of blades classified as having a bulb of force was 180 of which 107 were prominent, 64 were diffuse and nine were flaked off.

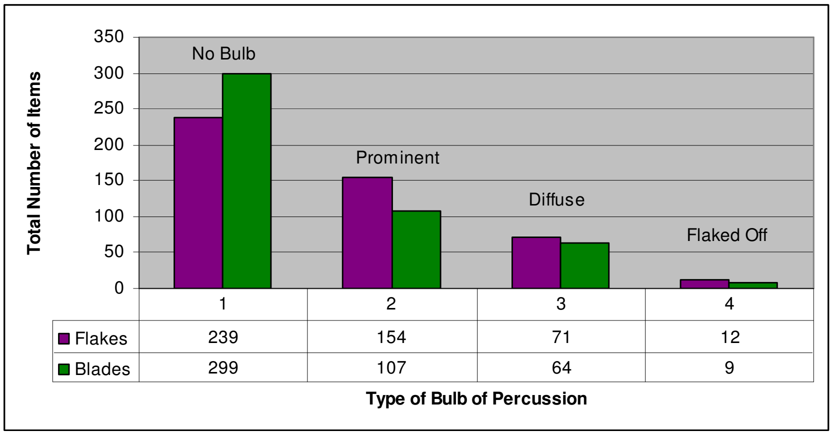
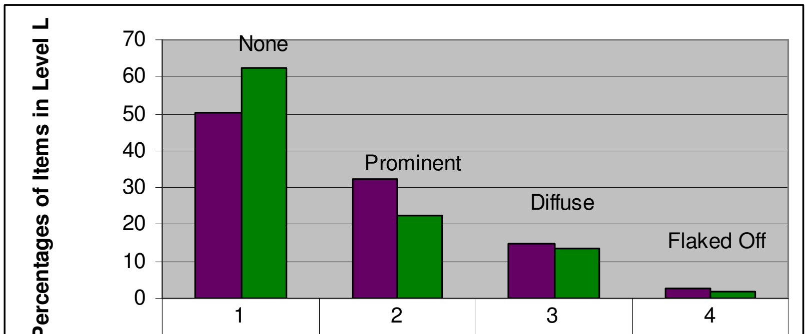


Figure 4.13: Frequency and Type of Bulb of Force in Level L

Data collected regarding termination for all items in Level L will now be presented (see Figure 4.15 and Figure 4.16). Terminations were sorted into the following categories: snap, feather, axial, undeterminable due to retouch, hinged, composite, outré passé, step and indeterminable. The total number of flakes with an axial termination in level L was 49. There were a total of 43 flakes with a hinged termination, while eight terminations on flakes were indeterminable. There were 92 flakes with terminations indeterminable due to retouch. The most common termination on flakes in level L was normal with a total count of 124. A total of eleven flakes presented an outré passé termination. Snap terminations on flakes were relatively frequent totaling 104. A total of eight flakes in level L presented a step termination and 23 had a composite termination.



	1	2	3	4
Flakes	50.2	32.3	14.9	2.5
Blades	62.4	22.3	13.4	1.9

Figure 4.14: Percentages of Types of Bulb of Force in Level L

A total of 96 blades with axial terminations were catalogued in level L. There were 50 blades with a hinged termination and three blades that were indeterminable. The number of blades that were indeterminate due to retouch was 36. There were 76 blades with a normal termination in level L. There was a total of ten items with an outré passé termination. The most frequent type of termination on blades was snap totaling 190. The number of blades with a step termination was seven. Finally, the total number of blades with a composite termination was eleven.

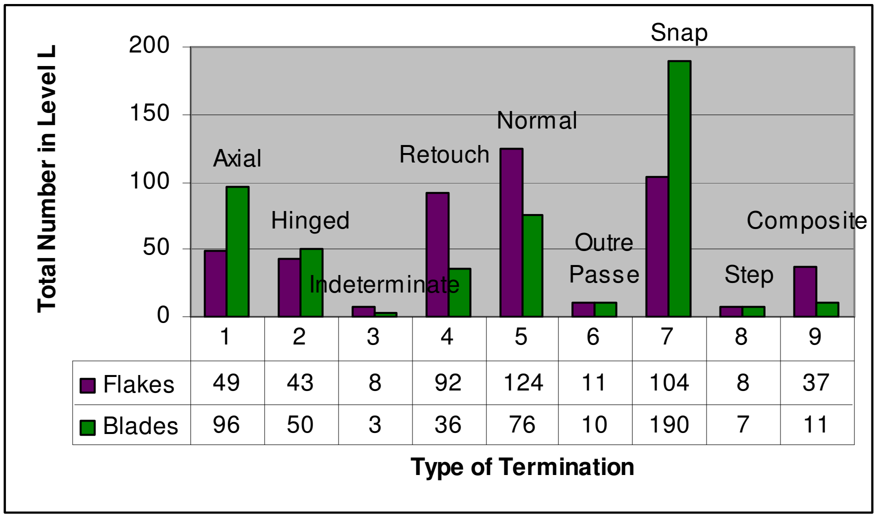
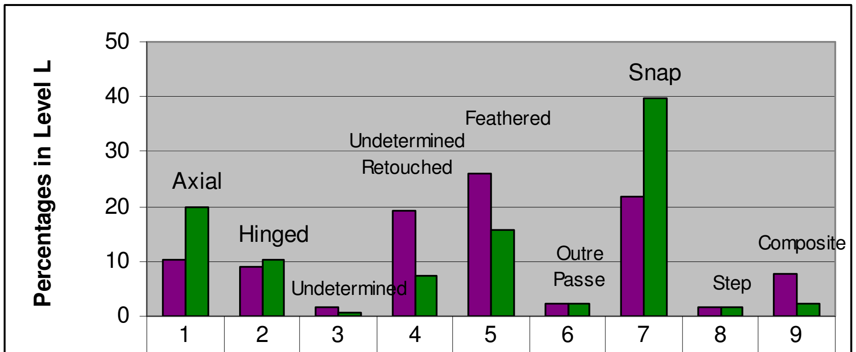


Figure 4.15: Frequency of Types of Terminations in Level L

The data describing orientation of dorsal scars on both flakes and blades in level L will now be presented (see Figure 4.17 and Figure 4.18). Data collection allowed for 16 distinct categories of combinations of different and multiple orientations. Category one contained 125 flakes and 98 blades with dorsal scars only from the proximal edge. Category two totaled eighteen flakes and eleven blades with dorsal scars originating from the left edge of the item. The third category included nineteen flakes and six blades with dorsal scars from the right edge. Category four contained 26 flakes and 28 blades with dorsal scars originating on the distal edge. Category five had 24 flakes and twelve blades with dorsal scars from both the proximal and left edges. Category six had seventeen flakes and five blades with dorsal scars from proximal left and right edges. The seventh category had ten flakes and three blades with dorsal scars originating from all four edges. Category eight has ten flakes and nine blades with dorsal scars from the proximal, dorsal and left edges.

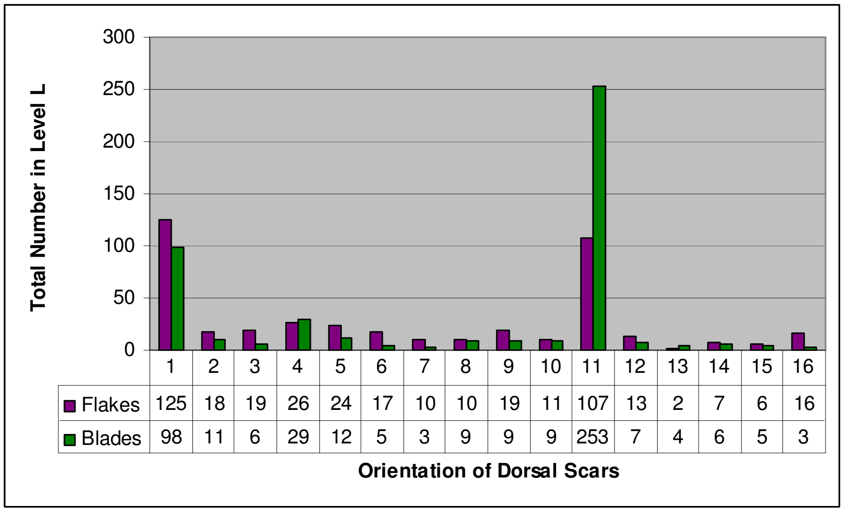
The ninth category had nineteen and nine blades with dorsal scars originating from the proximal and right edges. The tenth category had eleven flakes and



	1	2	3	4	5	6	7	8	9
Flakes	10.3	9	1.7	19.3	26	2.3	21.8	1.7	7.7
Blades	20	10.4	0.6	7.5	15.8	2.1	39.7	1.5	2.3

Figure 4.16 Percentages of Terminations in Level L

nine blades with dorsal scars originating from the proximal, right and distal edges. The eleventh category was by far the largest with 107 flakes and 253 blades with dorsal scars originating from the proximal and distal edges. There were thirteen flakes and seven blades in category twelve with dorsal scar originating from the right and left edges. The thirteenth category included two flakes and four blades with dorsal scars from the left right and distal edges.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flakes	125	18	19	26	24	17	10	10	19	11	107	13	2	7	6	16
Blades	98	11	6	29	12	5	3	9	9	9	253	7	4	6	5	3

Figure 4.17: Data regarding Dorsal Scar Orientation in Level L. Each category corresponds to a combination of dorsal scars as followed 1:1, 2:2, 3:3, 4:4, 5:1,2, 6:1,2,3, 7:1,2,3,4, 8:1,2,4. 9:1,3, 10:1,3,4, 11:1,4, 12:2,3, 13:2,3,4, 14:2,4, 15:3,4, 16: indeterminate.

Category fourteen totaled seven flakes and six blades with dorsal scars originating from the left and distal edges. The fifteenth category had six flakes and five blades with dorsal scars originating from the right and distal edges. Category sixteen included nine flakes and three blades with dorsal scars whose orientation was indeterminate.

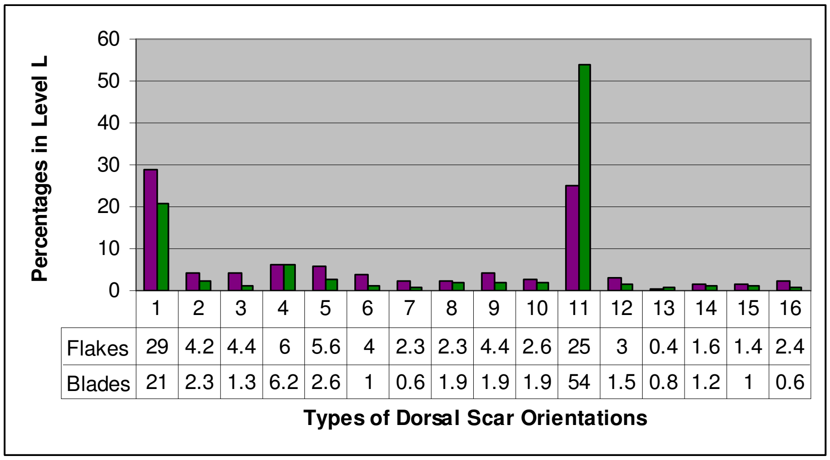


Figure 4.18: Percentages of Dorsal Scar Orientation in Level L. Each category corresponds to a combination of dorsal scars as followed 1:1, 2:2, 3:3, 4:4, 5:1,2, 6:1,2,3, 7:1,2,3,4, 8:1,2,4. 9:1,3, 10:1,3,4, 11:1,4, 12:2,3, 13:2,3,4, 14:2,4, 15:3,4, 16: indeterminate.

Descriptive statistics regarding the size of flakes and blades in level L will be presented in Table 4.1. The table includes minimum and maximum length of the item and the mean and standard deviation.

Table 4.1: Descriptive Statistics of Flakes and Blades in Level L.

Level L	N	Minimum	Maximum	Mean	Standard Deviation
Flakes-Length	472	6.0	107	28.3	16.8
Flakes- Width	472	2.0	154.5	26.8	14.9
Blades-Length	479	76.9	6.2	83.1	26.2
Blades-Width	479	2.2	60.3	15.7	7.8

Level M

The total number of items included in debitage analysis for level M was 1015. The total number of cores included 24 items. The category of blades totaled 471 and the flake category included 520 items. Included in the number of flakes is 23 core rejuvenation flakes (see Figure 4.19).

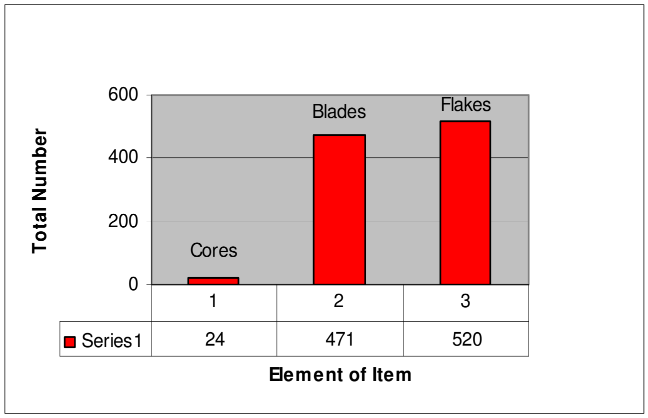


Figure 4.19: Frequency of Flakes, Blades and Cores in Level M

A total of 34 cores were encountered in level M at Termo-Pialat (see Figure 4.20 and 4.21). There were three types of cores represented in level M: multi-directional, bi-directional and uni-directional. A total of 12 cores were classified as multi-directional which made up 50.0% of all cores in level M. Additionally, eight cores were recorded as bi-directional which was 33.3% of all cores in level M. A total of four cores were categorized as uni-directional which constituted 16.6% of all cores in level M. Illustrations of all three types of cores are provided in Appendix B.

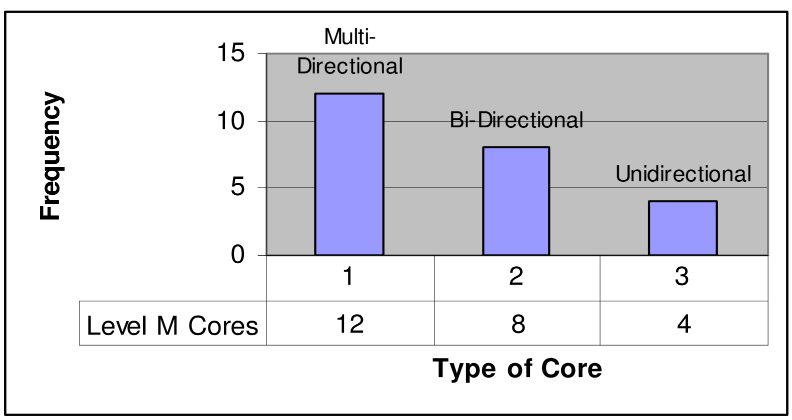


Figure 4.20: Frequency by Count of Types of Cores in Level M

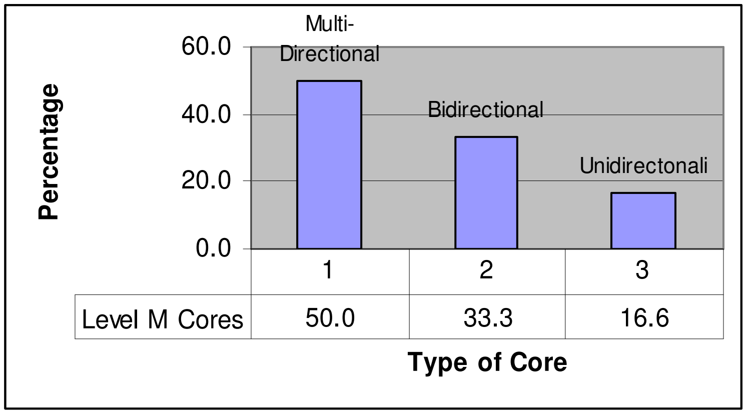


Figure 4.21: Percentage of Types of Cores in Level M

The information regarding the description of the segment category will now be presented (see Figure 4.22 and 4.23). The total number of complete flakes in level M was 131, while 155 flakes were distal fragments, 49 were midfragments and 185 were proximal fragments. The total number of complete blades in level M was 46 while 202 blades were distal fragments, 81 were midfragments and 142 were proximal fragments.

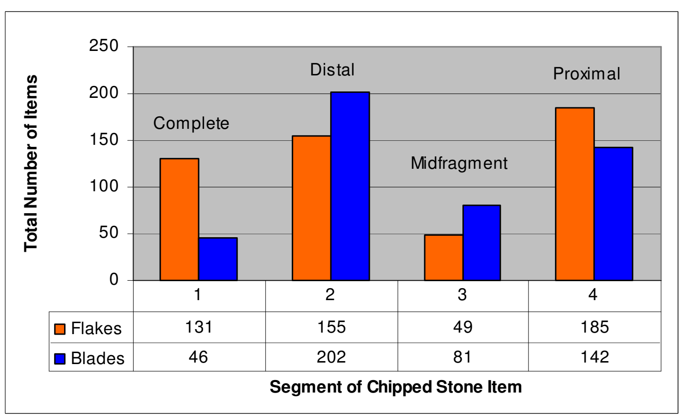


Figure 4.22: Frequencies of Segment in Level M

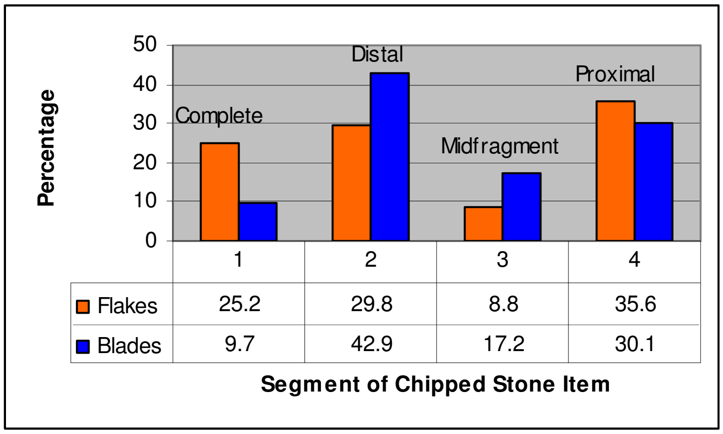


Figure 4.23: Percentage of Segment of Item in Level M

Information regarding the amount of dorsal cortex present in level M will now be presented (see Figure 4.24 and 4.25). The total number of flakes with no cortex was 238. Flakes presenting with 1-25% cortex in level M totaled 148. There were 43 flakes in level M presenting 26-50% cortex. The total number of flakes with 51-75% cortex was nineteen. Flakes with 76-99% cortical cover in level M totaled 34 and there were 38 flakes with 100% cortex. The total number of blades in Level M with no cortex was 330. The total number of blades with 0-25% cortical cover was 93, while the total number of blades with 26-50% cortex was 23. Blades with 51-75% cortex in level M totaled ten and those with 76-99% cortical cover totaled eleven. Finally, there were only four blades in level M with 100% cortical cover.

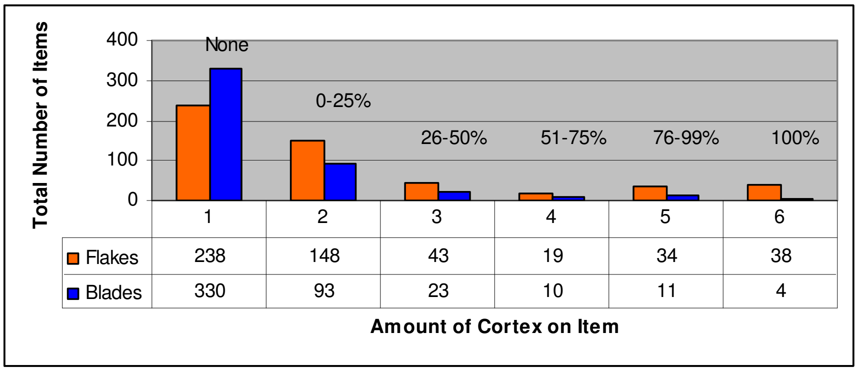


Figure 4.24: Frequency and Description Dorsal Cortex in Level M

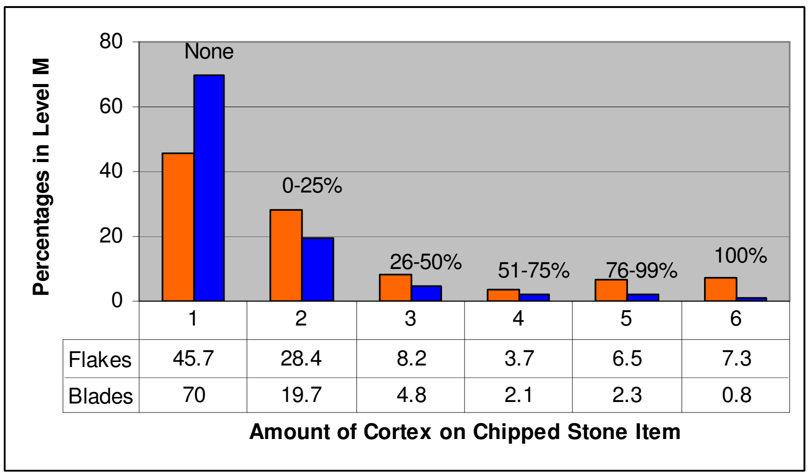


Figure 4.25: Amount of Dorsal Cortex by Percentage in Level M

The next attribute set that will be discussed is the presence of a striking platform in level M (see Figure 4.26 and Figure 4.27). The total number of flakes with a striking platform in level M was 312 while 204 lacked a platform. The total number of blades with striking platform in level M was 188, while 283 blades did not possess a platform.

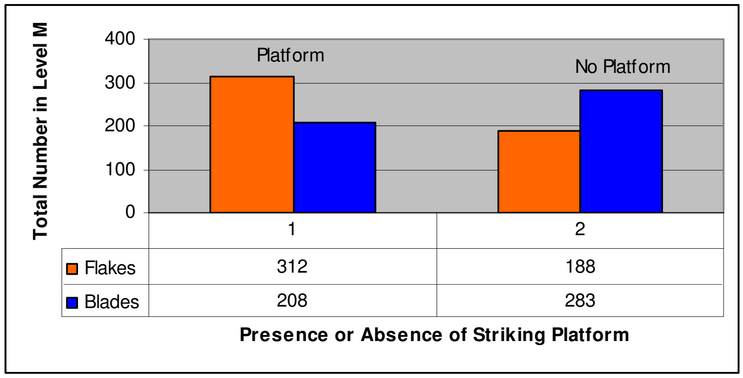


Figure 4.26: Frequency of Striking Platform in Level M

The frequency and distribution of types of striking platforms in level M is summarized in Figure 4.28 and 4.29. The total number of flakes with an angled striking platform was 149. There were 21 flakes with a crushed striking platform in level M. The flakes with cortical striking platform totaled 19. Flakes with a faceted striking platform totaled eight. The number of flakes with a flat platform from level M was 93. One flake had a striking platform that was indeterminate as to type. The category of ridged striking platforms contained 22 flakes. The number of level M blades with an angled platform

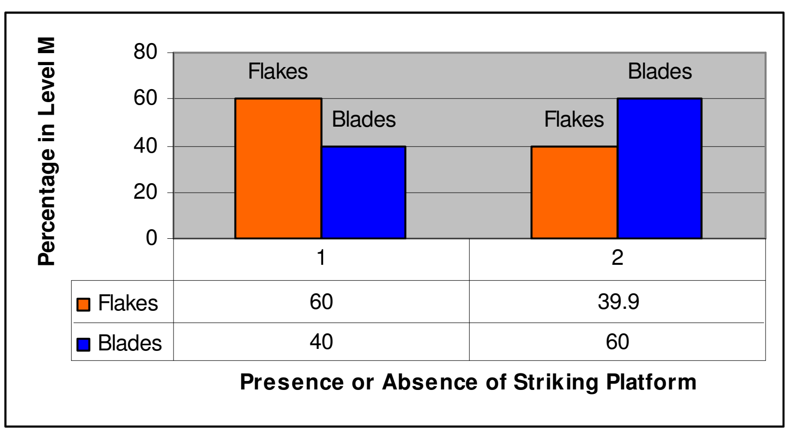


Figure 4.27: Percentages of Striking Platform in Level M

was 89. There were thirteen blades with a crushed striking platform while there were four blades with cortex on the striking platform. The category of faceted platforms in level M contains seven blades. There are 64 blades with flat striking platforms. All blades from level M were identifiable as to type of striking platform; therefore the indeterminate category was zero. Finally, there were 10 blades with striking platforms classified as ridged in level M.

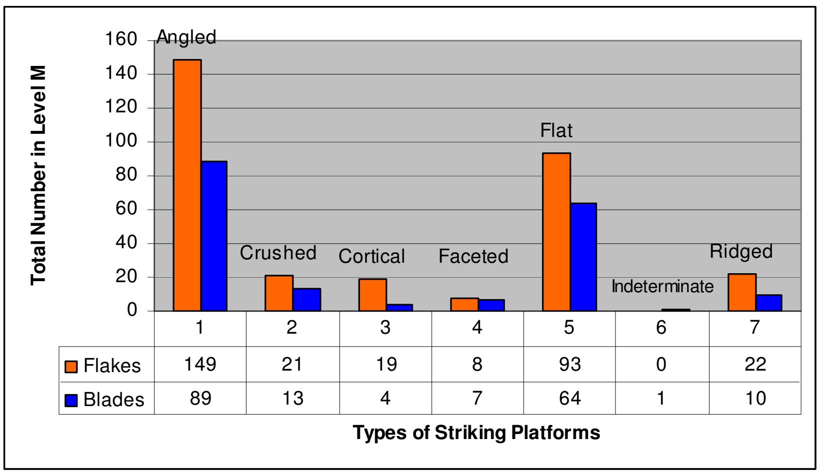


Figure 4.28: Frequency and Types of Striking Platforms in Level M.

The following information pertains to the frequency and type of the bulbs in level M (see Figure 4.30 and 4.31). There were a total of 207 flakes from level M classified as not having a bulb of percussion and 27 flakes had a bulb that was flaked off. A total of 186 flakes possessed a bulb of percussion, with 149 of them being prominent and 137 were diffuse. The total number of blades with no bulb was 283 while thirteen more had bulbs that were flaked off. A total of 175 blades possessed a bulb of percussion: 88 were prominent while 87 items were diffuse.

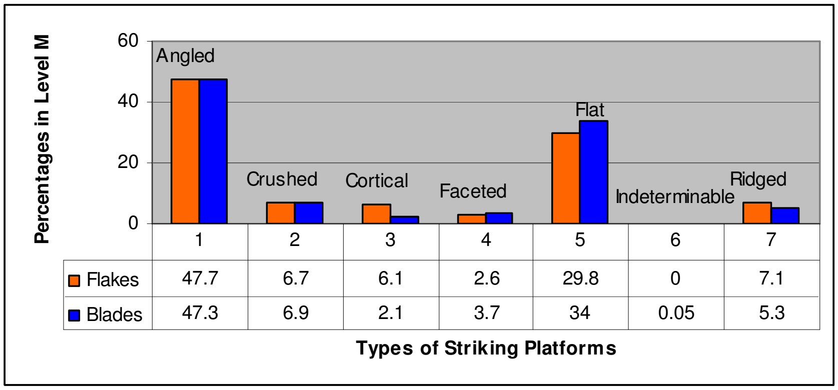


Figure 4.29: Percentages of Striking Platforms in Level M

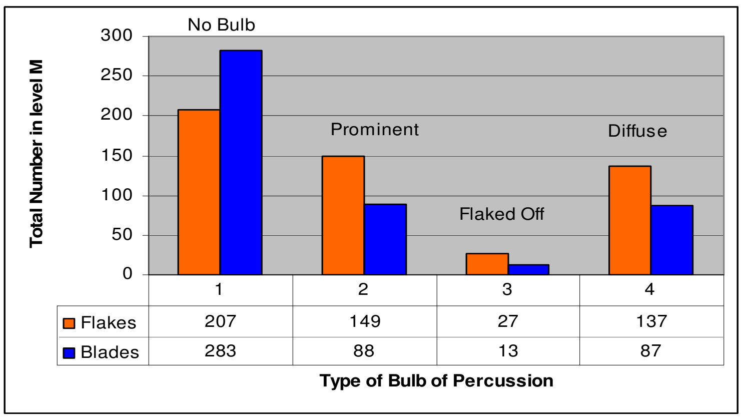


Figure 4.30: Frequency and Type of Bulb of Force in Level M

Data regarding the type of terminations found in level M will now be presented (see Figure 4.32 and 4.33). There were 101 flakes classified as axial and 85 classified as hinged. Three flakes were categorized as indeterminate. There were 64 flakes in level M recorded as normal. There were 25 flake terminations classified as outré passé. The category of snapped termination flakes was largest with 120 items. There were a number of flakes with terminations that were indeterminate due to retouch. A total of 76 flakes had terminations classified as indeterminate due to retouch while four flakes had terminations classified as indeterminate due to recent damage. The total number of blades with terminations classified as axial was 176. There were 62 blades with a

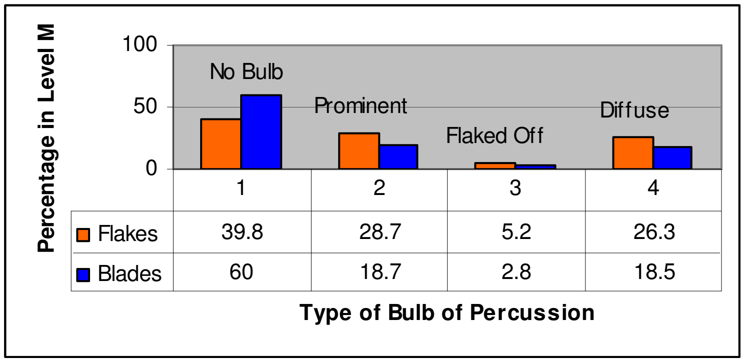
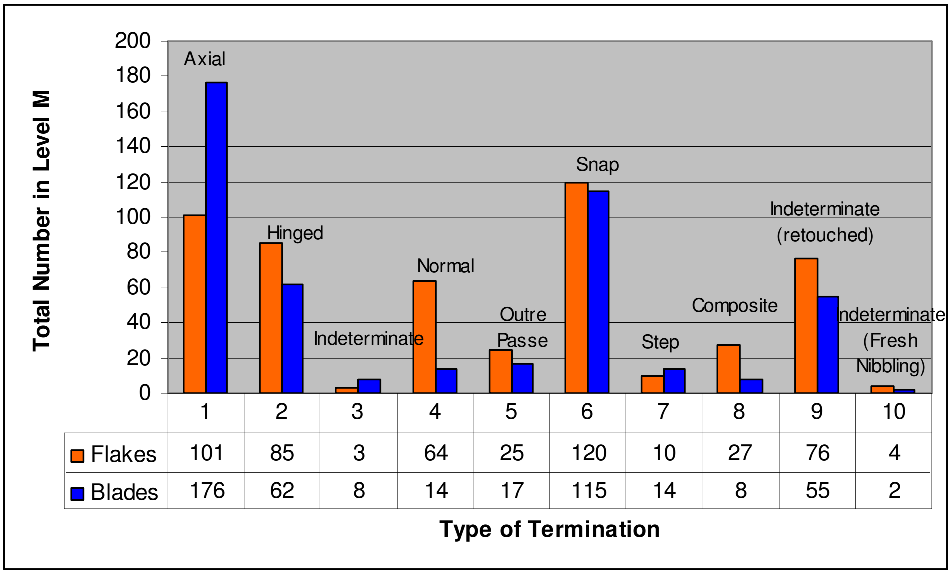


Figure 4.31: Percentages of Bulb of Force in Level M

termination classified as hinged. The number of blades with an indeterminate termination was eight, while 14 blades were classified as possessing a normal termination. The number of blades with an outré passé termination was 17. The frequency of blades with a snap termination was high totaling 115 pieces. Blades classified as possessing a composite termination totaled eight items. The number of blades whose termination was indeterminate due to retouch was 55, while there were two blades with indeterminate terminations due to recent damage.



	1	2	3	4	5	6	7	8	9	10
Flakes	101	85	3	64	25	120	10	27	76	4
Blades	176	62	8	14	17	115	14	8	55	2

Figure 4.32: Frequency and Type of Termination in Level M

The data regarding the dorsal scar orientation for flakes and blades in level M will now be presented (see Figure 4.34 and Figure 4.35). Category one contains 132 flakes and 138 blades with dorsal scars from the proximal edge. Category two contains 15 flakes and six blades with dorsal scars from the left edge. The third category had 12 flakes and five blades presenting dorsal scars originating from the left edge. Category

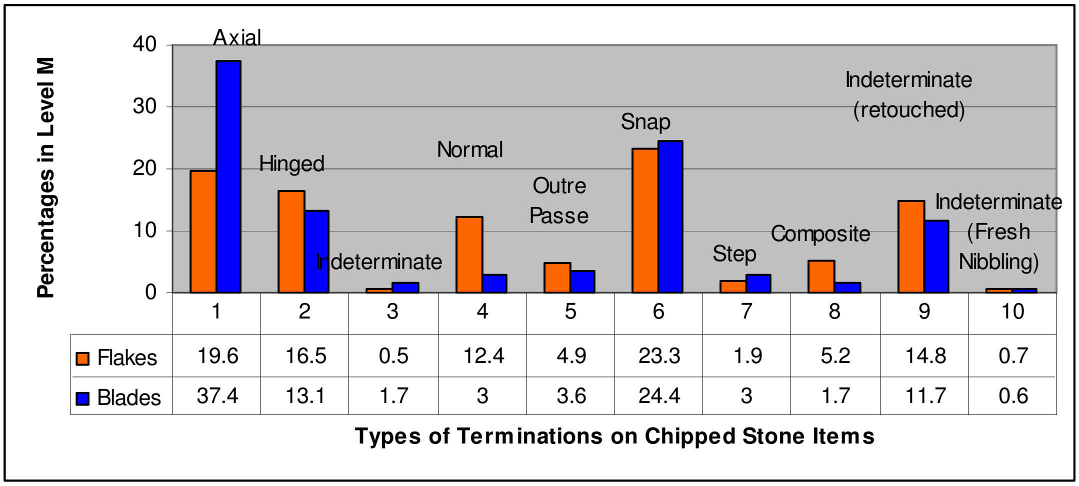
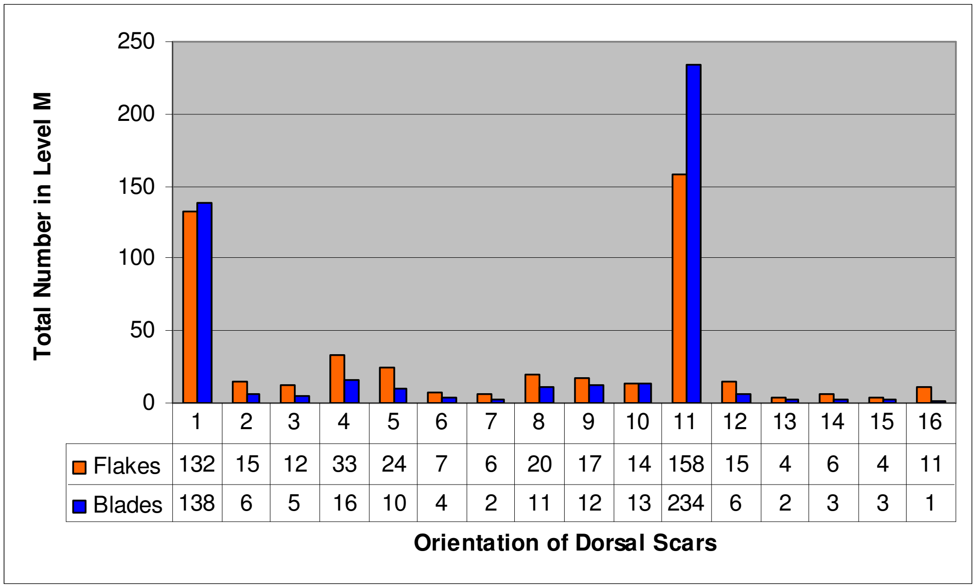


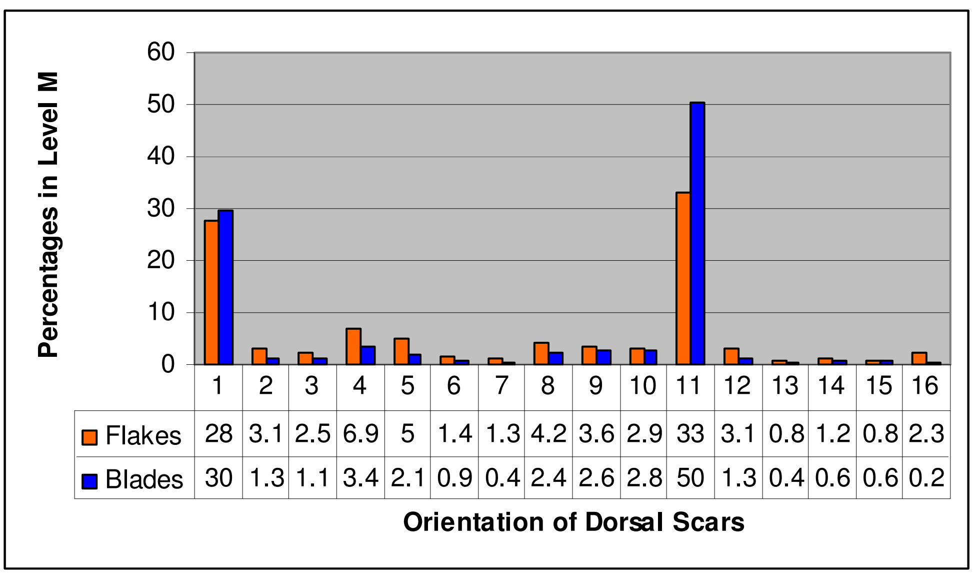
Figure 4.33: Percentages of Terminations in Level M.

four consisted of 33 flakes and 16 blades items with dorsal scars from the distal edge. The fifth category has 24 flakes and 10 blades with dorsal scars from the proximal and left edges. There are seven flakes and four blades in category six designated by dorsal scars from the proximal, left and right edges. Category eight included six flakes and two blades with dorsal scars from the proximal, distal, left and right. The ninth category contained 17 flakes and 12 blades with dorsal scars from proximal and right edges. Category ten had 14 flakes and 13 blades with dorsal scars from the proximal, right and distal edges. Category eleven was the largest with 158 flakes and 234 blades with dorsal scars from the proximal and distal edges. The twelfth category has 15 flakes and six blades with dorsal scars from the right and left edges. The thirteenth category had four flakes and two blades with dorsal scars from the left, right and distal edges. Category fourteen had six flakes and three blades with dorsal scars originating on the right and distal edges. The fifteenth category included four flakes and three blades with dorsal scars from the right and distal edges. Finally, there were 11 flakes and one blade labeled as indeterminate.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flakes	132	15	12	33	24	7	6	20	17	14	158	15	4	6	4	11
Blades	138	6	5	16	10	4	2	11	12	13	234	6	2	3	3	1

Figure 4.34: Data regarding Dorsal Scar Orientation in Level M. Each category corresponds to a combination of dorsal scars as followed 1:1, 2:2, 3:3, 4:4, 5:1,2, 6:1,2,3, 7:1,2,3,4, 8:1,2,4. 9:1,3, 10:1,3,4, 11:1,4, 12:2,3, 13:2,3,4, 14:2,4, 15:3,4, 16:IN.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flakes	28	3.1	2.5	6.9	5	1.4	1.3	4.2	3.6	2.9	33	3.1	0.8	1.2	0.8	2.3
Blades	30	1.3	1.1	3.4	2.1	0.9	0.4	2.4	2.6	2.8	50	1.3	0.4	0.6	0.6	0.2

Figure 4.35: Percentages of Dorsal Scar Orientation in Level M. Each category corresponds to a combination of dorsal scars as followed 1:1, 2:2, 3:3, 4:4, 5:1,2, 6:1,2,3, 7:1,2,3,4, 8:1,2,4. 9:1,3, 10:1,3,4, 11:1,4, 12:2,3, 13:2,3,4, 14:2,4, 15:3,4, 16:IN.

Descriptive statistics of the size of the flakes and blades in level M will be presented in Table 4.2. The table includes both the minimum and maximum length of the item. The mean and standard deviation are also supplied in the table.

Table 4.2 Descriptive Statistics of Flakes and Blades in Level M.

Level M	N	Minimum	Maximum	Mean	Standard Deviation
Flakes Length	515	5.2	98.5	27.6	14.1
Flakes Width	515	9.7	111.7	27.5	12.8
Blades Length	470	8.2	93.5	29.5	14.0
Blades Width	470	4.1	52.6	17.3	7.6

Retouch Analysis: Level L

The data regarding amount and types of retouch will now be presented for both levels L and M in the form of bar graphs. Similar to data presentation in the debitage analysis section, data on retouch are presented in separate categories of flakes and blades. The data describing the retouch of flakes and blades in level L will be presented together (Figure 4.36).

The total number of flakes in level L exhibiting retouch is 300 while the number of retouched edges was 534. There were 63 flakes in level L which showed evidence of retouch on the proximal edge. A total of 149 flakes in level L presented with retouch on the distal edge of the piece. There were 175 flakes in level L with retouch on the left edge and 147 flakes with retouch on the right edge. The total number of blades showing retouch was also 300 while the number of retouched edges was 539. There were 33 blades exhibiting retouch on the proximal edge and 63 blades with retouch on the distal edge. Blades with retouch on the left edge totaled 218 items while blades with retouch on the right edge totaled 225 items.

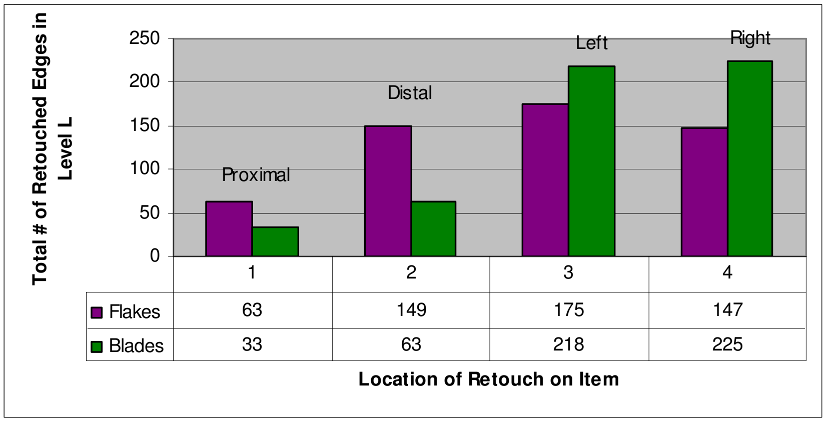


Figure 4.36: Location of Retouch on Flakes and Blades in Level L

The amount and type of retouch on the proximal edge of items in level L will now be presented. Flakes with abrupt retouch on the proximal edge totaled 31, with five flakes presenting discontinuous abrupt retouch, four flakes with continuous abrupt retouch and 22 with partial abrupt retouch. Abrupt retouch on the proximal edge of blades was recorded 16 times: discontinuous abrupt retouch was noted on four blades, continuous abrupt retouch was noted on three blades and partial abrupt retouch was noted on 22 blades. The total number of flakes with normal retouch on the proximal edge was 19: four flakes with continuous normal retouch, six flakes with discontinuous normal retouch and nine with partial normal retouch. The number of blades recorded with normal retouch on the proximal edge was seven: one blade with continuous normal retouch and six with partial normal retouch. Flakes with raised retouch on the proximal edge equaled 12 items: one flake with continuous raised retouch, three flakes with discontinuous raised retouch and eight flakes with partial raised retouch. There were a total of seven blades with raised retouch: one with continuous raised retouch and six with partial raised retouch. In both the flakes and blades category one or more items possessed more than one type of retouch. There was one flake with continuous abrupt and raised retouch on the proximal edge. Additionally, there were three blades with abrupt and raised retouch on the proximal edge: two with continuous abrupt and raised retouch and one with discontinuous abrupt and raised retouch.

The total number of flakes with abrupt retouch was 94: 33 with continuous abrupt retouch, 18 with discontinuous abrupt retouch, and 43 with partial abrupt retouch. The total number of blades with abrupt retouch on the distal edge is 47: 23 with continuous abrupt retouch, six with discontinuous abrupt retouch and eighteen with partial abrupt retouch. There were 17 flakes with normal retouch on the distal edge: two with continuous normal retouch, eight with discontinuous normal retouch and seven with partial normal retouch. The total number of blades with normal retouch on the distal edge was eight: two with continuous normal retouch and six with partial normal retouch. There were 26 flakes with raised retouch: one with continuous raised retouch, nine with discontinuous raised retouch and 16 with partial raised retouch. There were 5 blades with raised retouch on the distal edge: one with continuous raised retouch and four with partial raised retouch. A number of both flakes and blades with composite retouch on the distal edge were recorded. There were two flakes with both abrupt and normal retouch: one was discontinuous and the other was partial in length. There was one blade with both abrupt and normal retouch and it was partial in length. There were five flakes with both abrupt and raised retouch: three had continuous retouch, one had discontinuous retouch and one had partial retouch. One blade was recorded with both abrupt and raised retouch which was discontinuous in length. There were five flakes recorded with both normal and raised retouch: one with continuous retouch, three with discontinuous retouch and one with partial retouch. Finally, there was one blade with continuous normal and raised retouch on the distal edge in level L.

The total number of flakes with abrupt retouch on the left side was 72: 10 with continuous abrupt retouch, 20 with discontinuous abrupt retouch and 42 with partial retouch. The total number of blades with abrupt retouch was 79: 14 with continuous abrupt retouch, 29 with discontinuous abrupt retouch and 36 with partial abrupt retouch. The total number of flakes with normal retouch was 33: three with continuous normal retouch, 17 with discontinuous normal retouch and 13 with partial normal retouch. The total number of blades with normal retouch was 45: two with continuous normal retouch, 23 with discontinuous normal retouch and 20 with partial normal retouch. The total number of flakes with raised retouch was 41: six with continuous raised retouch, 16 with discontinuous raised retouch and 19 with partial raised retouch. The number of blades with raised retouch was 70: four with continuous raised retouch, 33 with discontinuous raised retouch and 33 with partial raised retouch. There are also a number of flakes and blades possessing composite retouch on the left edge. There are two flakes with abrupt and normal retouch on the left edge: one is partial and one is discontinuous. There is one blade with partial abrupt and normal retouch on the left side. There are 13 flakes with both abrupt and raised retouch on the left edge: three are continuous, nine are discontinuous and one is partial. There are 15 blades with abrupt and raised retouch on the left edge: two are continuous, 10 are discontinuous and three are partial. There are 15 flakes with both normal and raised retouch: four are continuous, nine are discontinuous and two are partial. Finally, there are eight blades with both normal and raised retouch: three are continuous and five are discontinuous.

The total number of flakes with abrupt retouch was 71: eight possess continuous abrupt retouch, 20 possess discontinuous abrupt retouch and 43 possess partial abrupt retouch. There were 66 blades with abrupt retouch: 10 with continuous abrupt retouch, 28 with discontinuous abrupt retouch and 28 with partial abrupt retouch. There were 20 flakes with normal retouch on the right edge: two with continuous normal retouch, eight with discontinuous normal retouch and ten with partial normal retouch. There were 35 blades with normal retouch on the right edge: four with continuous normal retouch, 17 with discontinuous normal retouch and 14 with partial normal retouch. There were 39 flakes with raised retouch on the right edge: nine with continuous raised retouch, 11 with discontinuous raised retouch and 19 with partial raised retouch. There were 94 blades with raised retouch on the right edge: six with continuous raised retouch, 41 with discontinuous raised retouch and 47 with partial raised retouch. Again, there were number of items which were categorized as possessing composite retouch. Five flakes were categorized as possessing abrupt and normal retouch on the right edge: one with continuous retouch, two with discontinuous retouch and two with partial retouch. There were seven blades with both abrupt and normal retouch on the right edge: two with continuous abrupt and normal retouch, two with abrupt and normal discontinuous retouch, and three with partial retouch. One flake was recorded as possessing abrupt, normal and raised discontinuous retouch. There were five flakes with abrupt and raised retouch: four with discontinuous retouch and one with partial retouch. There were 16 blades with abrupt and raised retouch: three with continuous retouch, 11 with discontinuous retouch and two with partial retouch. There were six flakes with normal and raised retouch on the right edge: one with continuous retouch and five with discontinuous retouch. Finally, there were seven blades with normal and raised retouch on the right edge: two with continuous retouch, four with discontinuous retouch and one with partial retouch.

Retouch Analysis: Level M

Data regarding the location, type and amount of retouch for level M will now be presented (see Figure 4.37). There were 370 flakes with retouch and 360 blades with retouch recorded in level M. There were 692 retouched edges on flakes while retouched edges on blades totaled 695. The location of retouch on both flakes and blades in level M will now be presented. Retouch was recorded on the proximal edge of flakes 57 times while blades had retouch on the proximal edge 42 times. Flakes had retouch on the distal end 157 times while blades showed retouch in the same location 106 times. Retouch on the left edge of occurred 238 times on flakes and 271 times on blades. The right edge was retouched on 240 flakes and 276 blades.

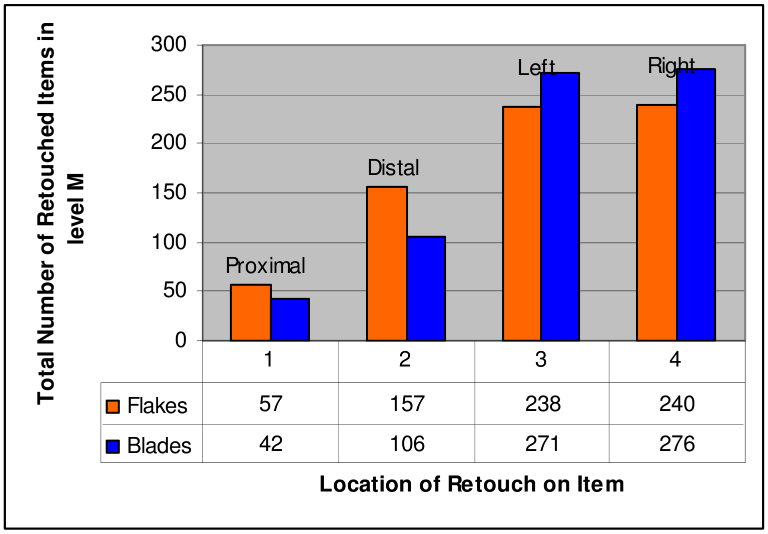


Figure 4.37: Location and Frequency of Retouch in Level M

Abrupt retouch was present on the proximal edge of 40 flakes: five with continuous abrupt retouch, nine with discontinuous abrupt retouch, and 26 with partial abrupt retouch. There were 34 blades with abrupt retouch on the proximal edge: continuous abrupt retouch on 12, discontinuous abrupt retouch on 10, and partial abrupt retouch on 12. Normal retouch occurred on the proximal edge of four flakes in level M: two with discontinuous normal retouch and two with partial normal retouch. Level M contained three blades with normal retouch one the proximal edge: one with continuous normal retouch, one with discontinuous normal retouch, and one with partial normal retouch. There were nine flakes with raised retouch on the proximal edge: two with continuous raised retouch, one with discontinuous raised retouch, and six with partial raised retouch. Partial raised retouch was present on the proximal edge of four blades. There was one flake with discontinuous abrupt and normal retouch on the proximal edge. Abrupt and raised retouch was recorded on the proximal edge of three flakes: two with continuous raised retouch and one with partial raised retouch. Finally, one blade in level M had partial abrupt and raised retouch on the proximal edge.

Abrupt retouch occurred on the distal edge of 111 flakes: 30 with continuous abrupt retouch, 28 with discontinuous abrupt retouch, and 53 with partial abrupt retouch. There were 78 blades with abrupt retouch on the distal edge: 27 with continuous abrupt retouch, 13 with discontinuous abrupt retouch, and 38 with partial abrupt retouch. Normal retouch was recorded on the distal edge of nine flakes in level M: one with continuous normal retouch, three with discontinuous normal retouch, and five with partial normal retouch. There were four blades in level M presenting normal retouch on the distal edge: one with continuous normal retouch, one with discontinuous normal retouch, and two with partial normal retouch. A total of 25 flakes were recorded with raised retouch on the distal edge in level M: three with continuous raised retouch, eight with discontinuous raised retouch, and 14 with partial raised retouch. There were 14 blades in level M with raised retouch: seven with continuous raised retouch and seven with partial raised retouch. Continuous abrupt and normal retouch occurred on the distal edge of one flake and one blade. There were 10 flakes with abrupt and raised retouch, four with continuous abrupt and raised retouch, five with discontinuous abrupt and raised retouch, and one with partial abrupt and raised retouch. Finally, one flake exhibited discontinuous normal and raised retouch on the distal edge.

The amount and type of retouch on the left edge will now be discussed. The total number of flakes presenting abrupt retouch on the left side is 159: 19 have continuous abrupt retouch, 52 have discontinuous abrupt retouch, and 88 have partial abrupt retouch. Blades with abrupt retouch on the left side equaled 174 items: 23 were continuous abrupt retouch, 78 were discontinuous abrupt retouch, and 73 were partial abrupt retouch. There were 12 flakes in level M with normal retouch on the left edge: one flake with continuous normal retouch, two flakes with discontinuous normal retouch and nine flakes with partial normal retouch. There were 19 blades in level M with normal retouch on the left edge: three with continuous normal retouch, 10 with discontinuous normal retouch, and six with partial normal retouch. Flakes with raised retouch on the left edge in level M totaled 49: two with continuous raised retouch, 22 with discontinuous raised retouch, and 25 with partial raised retouch. There were 51 blades with raised retouch in level M: five with continuous raised retouch, 14 with discontinuous raised retouch, and 32 with partial raised retouch. There were two flakes exhibiting abrupt and normal retouch on the left edge, one with discontinuous retouch, and the other with partial retouch. There were three blades with discontinuous abrupt and normal retouch in level M. There were 16 flakes in level M with abrupt and raised retouch on the left edge: three with continuous abrupt and raised retouch, 11 with discontinuous abrupt and raised retouch, and two with partial abrupt and raised retouch. There were 23 blades with abrupt and raised retouch in level M: one with continuous abrupt and raised retouch, 20 with discontinuous abrupt and raised retouch, and two with partial abrupt and raised retouch. Finally, one blade in level M possessed partial normal and raised retouch.

Data regarding the amount and type of retouch on the right edge of both flakes and blades in level M will now be presented. There are 139 flakes in level M with abrupt retouch: 17 with continuous abrupt retouch, 39 with discontinuous abrupt retouch, and 83 with partial abrupt retouch. A total of 164 blades possess abrupt retouch on the right edge: 20 with continuous abrupt retouch, 69 with discontinuous abrupt retouch, and 75 with partial abrupt retouch. Flakes in level M with normal retouch on the right edge totaled 14: continuous normal retouch on the right edge on three, the same number with discontinuous normal retouch, and eight with partial normal retouch. There were 22 blades in level M with normal retouch: two with continuous normal retouch, six with discontinuous normal retouch, and 14 with partial normal retouch. The number of flakes with raised retouch on the right in level M equaled 64: three with continuous raised retouch, 27 with discontinuous raised retouch, and 34 with partial raised retouch. There were 47 blades with raised retouch on the right side in level M: four with continuous raised retouch, 25 with discontinuous raised retouch, and 18 with partial raised retouch. Flakes with abrupt and normal retouch on the right edge equaled four: three with continuous abrupt and normal retouch, and one with discontinuous abrupt and normal retouch. There were six blades with abrupt and normal retouch on the right edge in level M: one with continuous abrupt and normal retouch, three with discontinuous abrupt and normal retouch, and two with partial abrupt and normal retouch. A total of 18 flakes exhibited abrupt and raised retouch on the right edge: four with continuous abrupt and raised retouch, 12 with discontinuous abrupt and raised retouch, and two with partial abrupt and raised retouch. There were 33 blades with abrupt and raised retouch on the right edge in level M: seven with continuous abrupt and raised retouch, 23 with discontinuous abrupt and raised retouch, and three with partial abrupt and raised retouch. A single flake was recorded with discontinuous normal and raised retouch on the right edge in level M. Finally, a total of four blades were recorded with normal and raised retouch on the right edge in level M: one with continuous normal and raised retouch, one with continuous normal and raised retouch, two with discontinuous normal and raised retouch, and one with partial normal and raised retouch.

Formal Tools

The assemblages recovered from levels L and M at Termo-Pialat also included lithic tools. These artifacts were identified as formal tools according to the typology devised by Sonneville-Bordes and Perrot (1954-6) as discussed in chapter three. Additionally, a cumulative index table will be provided showing a comparison of the frequencies of formal tools in both levels (see Figure 4.38). Illustrations of formal tools from both level L and M are presented in Appendix B.

A total of 38 tools were recovered from level L at Termo-Pialat including such types as denticulate, scraper, and retouched and truncated blade. A complete list of formal tools from level L is presented in Table 4.3. The majority of categories of tools only contained one artifact, but a few concentrations were noted. Denticulates were the most commonly encountered tool type totaling nine artifacts. Additionally, there were seven artifacts presenting a notch and classified as a tool. Scrapers of various types were frequent in level L with 11 tools. Particularly notable was the flat nosed scraper, an important temporal marker indicating Aurignacian occupation. Additionally, a composite tool was encountered (a drawing of this is provided in Appendix B). Various types of burins were encountered in low frequencies including dihedral and burins on truncation.

Table 4.3: Frequency of Formal Tools in Level L

Tool Type	SBP Number	Total Count
Asymmetrical Dihedral Burin	28	2
Atypical End Scraper	2	2
Aurignacian Blade	67	1
Backed Bladelet	85	1
Burin on Oblique Truncation	35	1
Denticulate	75	9
End Scraper	1	3
Flat Nosed Scraper	14	3
Notch	74	7
Oblique Truncation	61	1
Scraper/Burin	17	1
Side Scraper	77	3
Straight Truncation	60	3
Strangled Blade	68	1

A total of 60 tools were encountered during analysis of level M including frequent burins, denticulates and scrapers (see Table 4.4). The most commonly encountered tool type was denticulate with 13 items (see illustration in Appendix B). Notches are also noted in level M, appearing on 11 total artifacts. End scrapers also made up a large portion of the tool assemblage from level M including simple and atypical forms. Thick nosed scrapers are present in level M (see illustration in Appendix B). Additionally, diverse forms of burins were encountered in level M including dihedral burins, busque burins, mixed burins and burins on truncations.

Table 4.4: **Frequency of Formal Tool Types in Level M.**		
Tool Type	**SBP Number**	**Total Count**
Asymmetrical Dihedral Burin	28	2
Atypical End Scraper	2	4
Backed Bladelet	85	4
Burin on Oblique Truncation	35	4
Busque Burin	32	1
Convex Truncation	62	1
Denticulate	75	13
Dufour Bladelet	90	1
Multiple Mixed Burin	40	2
Thick Nosed Scraper	13	4
Notch	74	11
Pick	73	2
Scraper/Burin	17	1
Simple End Scraper	1	7
Straight Dihedral Burin	27	2
Transversal Burin on Lateral Truncation	19	1

Table 4.5: Comparison of Frequencies of Formal Tool Types in Levels L and M.			
Tool Type	**SBP Number**	**Level L**	**Level M**
Asymmetrical Dihedral Burin	28	2	2
Atypical End Scraper	2	2	4
Aurignacian Blade	67	1	0
Backed Bladelet	85	1	4
Burin on Oblique Truncation	35	1	4
Busque Burin	32	0	1
Convex Trunctation	62	0	1
Denticulate	75	9	13
Dufour Bladelet	90	0	1
End Scraper	1	3	7
Flat Nosed Scraper	14	3	0
Multiple Mixed Burin	40	0	2
Notch	74	7	11
Oblique Truncation	61	1	0
Pick	73	2	2
Scraper/Burin	17	1	1
Side Scraper	77	3	0
Straight Truncation	60	1	0
Straight Dihedral Burin	27	0	2
Strangled Blade	68	1	0
Thick Nosed Scraper	13	0	4
Transversal Burin on Lateral Truncation	19	0	1
Truncated Blade	60	2	0

Cumulative Index

A cumulative index was completed for the tools in both level L and M (see Figure 5.38). Such graphs are a useful tool for comparing cumulative frequencies of distinct tool types in separate assemblages. These graphs are based on the typology of Sonneville-Bordes and Perrot (1953, 1954-1956). Cumulative indices are frequently constructed for scholarship on the Upper Paleolithic in France, therefore its inclusion allows for comparison with other sites.

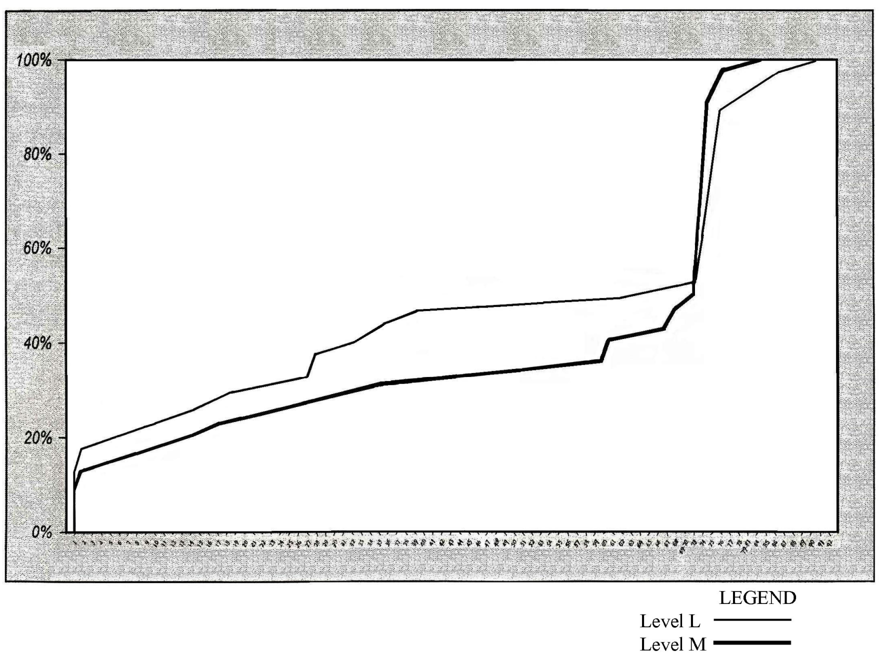


Figure 4.38: Cumulative Index of Levels L and M from Termo-Pialat (graph format after Chiotti 2005).

This concludes the presentation of data from debitage, retouch and typological analysis of levels L and M. The purpose of the chapter was data presentation, with data interpretation to follow in chapter five.

Chapter Five: Data Analysis and Conclusions

The purpose of this chapter is to interpret the data presented in chapter four. The data will be examined for indications of technological trends within each level. Data from both levels will be compared against each other in order to examine for change over time. The data from Termo-Pialat will then be compared to proximal sites specifically Abri Pataud, Le Caminade Est, Le Flageolet, La Ferrassie and Le Facteur. Final conclusions will be presented with suggestions for future research.

Debitage Analysis: Level L Results

Level L contained a very high proportion of broken items although this may be a result of a number of variables. On possible cause for the amount of broken items is continual human movement over the site resulting in broken artifacts. Additionally, as the site is located on a slope the downward movement of specimens could also result in a high number of broken artifacts. Another explanation for the high rate of broken artifacts is the assemblage's long curation and history as a teaching collection. The more frequently handled the assemblage is, the higher the chances artifacts will break. Chipped stone is especially brittle and in danger of breakage and pitting around the edges. Complete flakes totaled just more than one-quarter (28.5%) of all flakes while the complete blades were 11.9% of all blades.

The limited number of cortical flakes suggests a major activity represented in the assemblage is tool production while cobble reduction was not emphasized. Almost half of flakes (43.8%) in level L did not present cortex while over half (64.0%) of blades had no cortex. It is expected that because cortex covers only the outer surface of the initial cobble the frequency of primary decortication flakes will be low. The occurrence of primary decortication flakes was 8.6% of flakes while primary decortication blades were only 2.5% of all blades.

Data collected on the striking platforms in level L suggests few prepared platforms were observed. The high frequency of angled (48.9%) and flat (36.4%) platforms on flakes suggest platform preparation was not preserved within the assemblage from Termo-Pialat. Those flakes reflecting platform preparation were found in much lower frequencies particularly ridged (4.7%) and faceted (1.7%) platforms. The data reflects the same conclusions regarding striking platforms for the blades in level L. There are high rates of flat (37.2%) and angled (48.8%) platforms and low frequencies of prepared striking platforms such as ridged (4%) and faceted (1.7%). Both flakes and blades in level L show low frequencies of striking platform preparation.

Data analysis for the bulb of percussion suggests the dominance of hard hammer percussion in level L. The majority of both flakes and blades possess a prominent bulb of percussion. The rate of a prominent bulb for flakes in level L is 64.9% of all flakes with bulbs while the rate among blades is 59.4% of all blades with bulbs. A prominent bulb of percussion is commonly associated with hard hammer percussion (Crabtree 1972: 44).

The results of the data for level L present the expected results for blades while the data for flake termination showed three frequent types. Blade termination most frequently presented snap (39.6%) and axial (20.0%) termination. The snap termination is a result of a loss of force while a flake detaches or a flaw in the raw material (Odell 2004: 58). Data collected for the terminations of flakes produced three frequent types: normal (26.0%), snap (19.3%) and indeterminate due to retouch (19.3%). A normal termination is produced when the force from the percussor moves uninterrupted through the core to detach the flake in a regular fashion. This is the desired result when flintknapping for flakes. The loss of force resulting in a snap termination is also common among blades from level L. The frequency of blades with indeterminate terminations due to retouch is an indication of the high rate of retouch within the assemblage.

Data regarding the orientation of dorsal flake scars presents common combinations. Flakes with removal scars originating from only the proximal edge account for 22.4% of all the flakes in level L. The category with dorsal scars from both the proximal and distal edges contained 22.4% of all flakes. The most common combination on blades in level L is scars originating from both the proximal and distal edges at 52.8% of blades in level L. Blades with dorsal flakes originating from only the proximal edge were also common constituting 20.4% of all blades. This was expected as it is consistent with bi-directional blade technology. Data regarding dorsal scar orientation produced flakes and blades with high frequencies of removal scars from the proximal and distal edges.

Retouch Analysis: Level L Results

The total number of retouched flakes in level L was 300 with 534 retouched edges. Frequencies of retouch on specific edges do not present a more commonly worked edge but show relatively even retouching of the right, left, and distal edges. Retouch on flakes in level L was most frequently recorded on the left edge and was noted on 32.7% of retouched edges. Distal edges with retouch amount to 27.9 % of all retouched edges in level L. Flakes with retouch on the right edge equal 27.5% of all retouched edge. Retouching the proximal edge of flakes was not commonly represented in level L. Consistently, the most common type of retouch on all edges was abrupt.

A total of 300 blades from level L presented retouch while there were 539 retouched edges on blades. Retouch on blades from level L shows high frequencies of retouch on the right and left edges. Right edges with retouch amount to 41.7% of blades while left edges total 40.8%. The most common type of retouch on the right edge was raised noted on 41.7% of retouched right edges on blades. The left edge shows relatively even frequencies of abrupt (36.2%) and raised (32.1%) retouch. Retouch on the proximal and distal edges amount to only 17.8% of all retouched edges on blades in level L. This shows a common activity in level L was abruptly retouching right and left edges of blades. It appears proximal and distal edges were not focused on during retouching activities. The high proportion of retouch on the margins of blades could show a preference for manufacture of certain Aurignacian tools such as backed blades, Strangled blades or Aurignacian blades.

The similarity of numbers of retouched flakes and blades in level L is apparent. The total number of retouched blades and flakes is exactly equal in level L, each totaling 300. The difference in total number of retouched edges is only 3. This shows there is no preference for retouching either flakes or blades and both are retouched equally in level L.

Debitage Analysis: Level M Results

The frequency of broken items in level M is high in both flakes and blades. The rate of broken flakes is 74.8% while broken blades amount to 90.2%. These data indicate that almost all pieces of chipped stone debitage in level M were broken.

Data regarding striking platform in level M suggests platform preparation was not a common activity. The most frequent types of platforms among flakes in level M are angled (47.7%) and flat (29.8%). The categories of prepared platforms such as faceted and ridged together constitute 9.6% of flakes with platforms. Platform types among blades are similar to the flakes with angled platforms constituting 47.3% of all blades and flat platforms encountered on 34.0% of the blades. Blades with prepared platforms including ridges and faceted amount to only 9.0% of the assemblage from level M. Flat and angled platforms are the most common platform types among blades in level M.

Items without cortex are more frequent in level M than those with cortex. Flakes without cortex in level M constitute 45.7% of all flakes. Level M contained 46.9% flakes with partial cortex on the dorsal side. The rate of flakes completely covered with cortex on the dorsal side was 7.3% of all flakes. Blades without cortex amount to 70.0% of all blades in level M. Blades with partial cortex constitute 29.0% of the entire assemblage. The blades with the dorsal side completely covered in cortex amount to 0.8% of all blades. The high frequency of cortex on flakes and blades suggests early stage cobble reduction was performed to make the assemblage in level M.

The data collected regarding bulb of force suggested both soft and hard hammer percussion were used in level M. The rate of prominent bulbs of force among flakes in level M is 47.6%, while flakes with diffuse bulbs of force accounted for 43.7%. The rate of prominent bulbs of force among blades in level M is 46.8% while the rate of diffuse bulbs of force is 46.2%. This shows a practically identical distribution between the two types of force.

Collection of data regarding termination in level M revealed patterns about technology. The most frequently reported type among flakes were snap (23.3%) and axial (19.6%). Normal terminations were only recorded in only 12.4% of flakes. This shows a fair amount of breakage during flake manufacture. The most common types of termination among blades were axial (37.4%) and snap (24.4%).

Dorsal scar orientation in level M presented high frequencies of certain categories, particularly those from the proximal and distal edges. The most common dorsal scar orientation was from the proximal and distal edges at 30.3% of all flakes. Dorsal scars exclusively from the proximal edge are also numerous at 25.3% of all flakes. Blades from level M present a similar pattern as the flakes. Dorsal scars from both the proximal and distal edges amount to 49.7% of all blades. Dorsal scars from the only the proximal edge constitute 29.2% of blades in level M.

Retouch Analysis: Level M Results

The total number of retouched flakes in level M was 370, while the total number of retouched edges on flakes was 692. Retouch on the right and left edges are almost equally as common amounting to 34.3% and 34.6% of all retouched edges. By far the most common type of retouch for both of edges is abrupt. On the right edge, abrupt retouch accounts for 57.9% of all retouch on the right edge. Similarly, abrupt retouch on the left edge accounts for 66.8% of all retouched left edges. In contrast, proximal and distal edges are less frequently retouched. Retouched distal edges are more common totaling 22.6% of retouched edges than retouched proximal edges at 8.2%. This data suggests left and right edges were concentrated on during retouch activities on flakes in level M.

The total number of retouched blades in level M was 360, while the number of retouched edges was 695. The left and right edges of blades in level M were retouched most commonly. Retouch on the right edge accounts for 39.7% of retouched edges on blades. The left edge totals 38.9% of retouched edges on blades in level M. Retouch on the distal and proximal edges was noted in low frequencies. The most common type of retouch continues to be abrupt noted on 64.2% of retouched left edges and 59.4% of retouched right edges. Retouch on the distal edge amounted to 15.2% of all retouched edges on blades in level M while retouch on the proximal edge totaled 6.0% of all retouched edges on blades in level M.

chaîne opératoire

The *chaîne opératoire* at Termo-Pialat is an interpretation through the evidence of the manufacture trajectory of stone tools. This sequence was deduced from the debitage and retouch analysis described above. The lithic materials were collected at the nearby source of Senonian chert and brought to Termo-Pialat for initial processing. The cobbles were reduced producing many flakes with varying degrees of cortex on the dorsal face. The substantial proportion of flakes is expected as high numbers of flakes are produced during the manufacture of blade cores. Some of the cores were eventually made into successful uni-directional and bi-directional blade cores. Data regarding bulb of force suggest both hard and soft hammer percussion were utilized in both levels. Evidence for preparation on the striking platform is negligible throughout both levels L and M. This is contradictory to the knowledge that blade cores necessitate a great deal of preparing the striking platform(s). Additionally, the number of core rejuvenation flakes is also minimal. Analysis suggests in level L the flintknapper was able to achieve a normal termination (26.0%) on flakes. Data stating normal terminations were the largest portion of all types suggest the flintknapper possessed knowledge of stone fracture mechanics. In both levels, axial and snap terminations were also common. Axial terminations were often achieved in the blade production at Termo-Pialat. The high frequency of snap terminations reflects the number of broken items. In both levels dorsal scar orientation most often originated from the proximal edge only or a combination of proximal and distal edges.

Documented retouch on over half the examined artifacts suggest it as an important step in the *chaîne opératoire*. The high proportion of retouch may be due to sampling as items under 5 cm were not included in IFA. Abrupt retouch on flakes in both levels was most often executed on the right and left edges. Flakes with abruptly retouched distal edges were also common but not as constant as retouch on right and left edges. Retouch on the proximal edge of flakes was present in the *chaîne opératoire* but was not emphasized. Retouch on blades in both levels was primarily abrupt and emphasized on the right and left edges. Distal and proximal edges with retouch on blades were not common in either level. The *chaîne opératoire* at Termo-Pialat emphasized abrupt retouch on the right and left edges and less commonly on the distal and proximal edges.

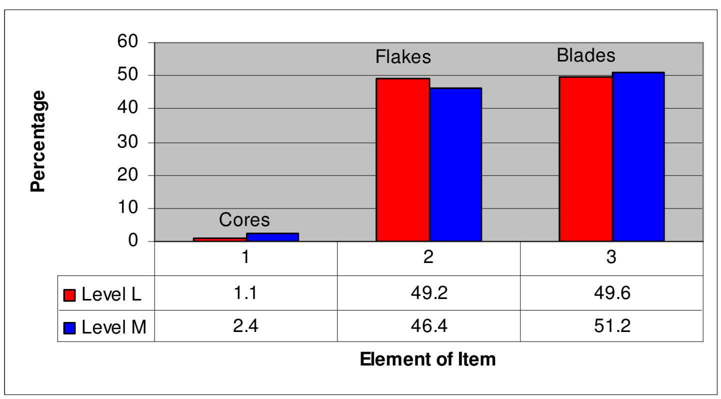
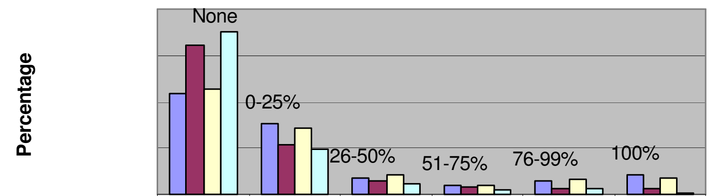


Figure 5.1: Elements in Levels L and M.

Results of Debitage Analysis: Comparison of Level L and M

Performing debitage analysis on the materials recovered from level L and M at Termo-Pialat allowed a comparison of results from each level. This allowed for an assessment of the two levels which in turn may reflect variation in activities or change over time.



	1	2	3	4	5	6
L Flakes	43.4	30.6	7.4	3.8	6.1	8.6
L Blades	64.1	21.7	5.6	3.3	2.7	2.5
M Flakes	45.7	28.4	8.2	3.7	6.5	7.3
M Blades	70	19.7	4.8	2.1	2.3	0.8

Amount of Cortex

Figure 5.2: Comparison of Dorsal Cortex in Levels L and M

The results from the comparison between levels show the materials from the two levels were similar (see Figures 5.1-5.6). The frequencies of particular attributes examined were comparable between levels. The amount of cortex present in both levels was also relatively even. The frequency of flakes with cortex is a 1.9% difference between levels. Blades with cortex between levels showed a difference of 6.0% (see Figure 5.2). The number of broken pieces are similar in levels L and M. Specifically, frequencies of broken flakes in both levels are within 3.8% of each other while there was a 2.1% difference in frequencies of broken blades (see Figure 5.3). The frequencies of types of platforms were also comparable between levels. Portions of angled platforms were within 1.2% on flakes and 1.5% in blades. The frequency of flat platforms shows a slight amount of variability among flakes at a 6.7% difference. Frequencies of blades with flat platforms are less variable showing a 3.2% difference (see Figure 5.5). Snap terminations were another attribute examined that presented similar frequencies showing only a 1.2% difference between levels. While the frequency of technological attributes appear alike when the chi-square for independence was performed these data there no relationship was found between levels in any technological attribute (see below).

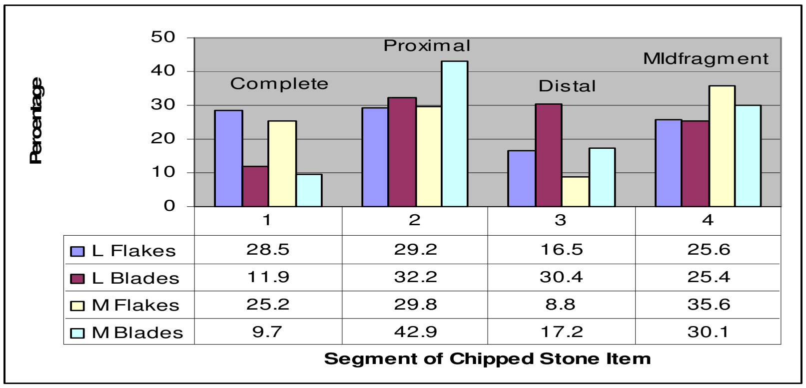


Figure 5.3: Comparison of Segment in Levels L and M.

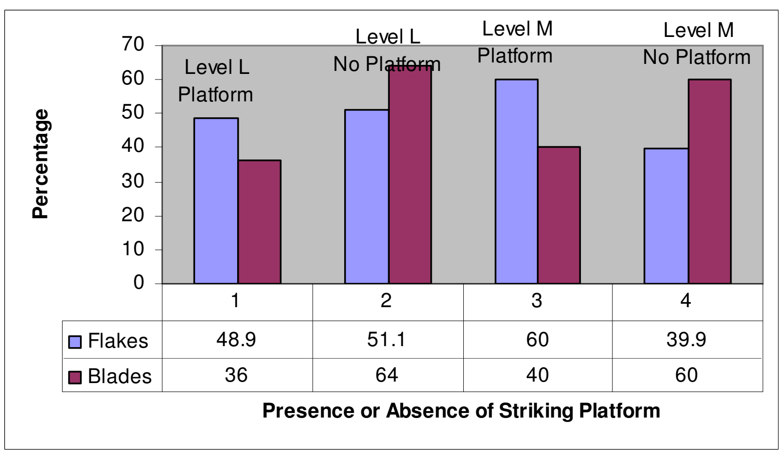
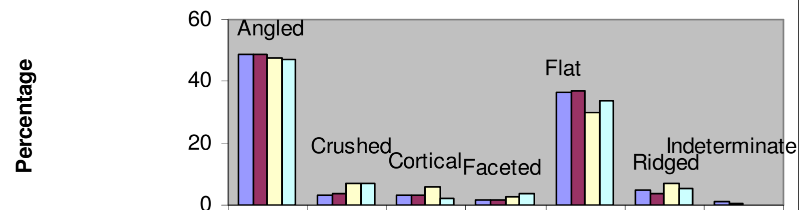


Figure 5.4: Comparison of Striking Platforms in Levels L and M

Bulb of percussion and termination are two attributes which presented a slight difference between levels. Termination was one attribute which showed slight change over time. Axial and hinged terminations were more common among flakes in level M while normal termination are more frequent in level L (see Figure 5.6).

The bulb of force was another of these attributes. The flakes in level M presented more diffuse bulbs of force than level L at 43.7% and 29.9% respectively (see Figure 5.7).



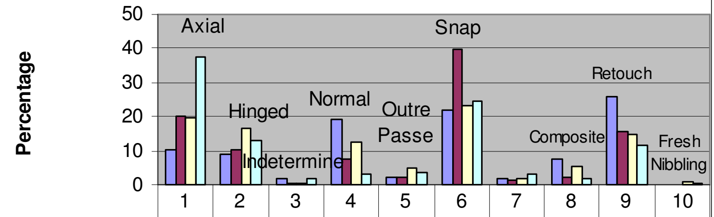
	1	2	3	4	5	6	7
Level L Flakes	48.9	3.4	3.4	1.7	36.4	4.7	1.2
Level L Blades	49	4	3.4	1.7	37.2	4	0.5
Level M Flakes	47.7	6.7	6.1	2.6	29.8	7.1	0
Level M Blades	47.3	6.9	2.1	3.7	34	5.3	0.05

Types of Striking Platform

Figure 5.5: Comparison of Types of Striking Platform in Levels L and M

Statistical Tests: Debitage Analysis

In order to examine the data sets from level L and M with statistics, the chi-square test for independence was performed. Separate tests were conducted for each attribute on both flakes and blades from each level. A chi-square test for independence was conducted in order to examine the relationship between flakes blades and cores in Levels L and M. The result of the test was as follows, X^2=0.3434, p=0.05 with two degrees of freedom and therefore not significant. No relationship exists between the number of flakes, blades and cores in level L and M.



	1	2	3	4	5	6	7	8	9	10
L Flakes	10.3	9	1.7	19.3	2.3	21.8	1.7	7.7	26	0
L Blades	20	10.4	0.6	7.5	2.1	39.7	1.5	2.3	15.8	0
M Flakes	19.6	16.5	0.5	12.4	4.9	23.3	1.9	5.2	14.8	0.7
M Blades	37.4	13.1	1.7	3	3.6	24.4	3	1.7	11.7	0.6

Type of Termination

Figure 5.6: Comparison of Types of Termination in Levels L and M

Chi-square tests for independence were performed in order to examine the relationship of attributes on flakes from Level L against flakes in Level M. The level of significance for all of the chi-square tests below remained 0.05. The chi-square test for independence was performed to investigate the relationship among flakes with and without striking platform in both levels L and M. The result was not significant as X^2=0.0005 with *df*=1. This shows no relationship between the number of flakes with and without platforms in levels L and M. The same statistic was also performed for platform type on flakes in levels L and M. The result of this test was X^2=0.61 with *df*=6. The varying amount of cortex on flakes in levels L and M was tested with the chi-square. The result of this was X^2=1.0 with *df*=5. The types of termination on flakes from levels L and M were tested and the result was not significant as X^2=5.97 with *df*=8. Finally, dorsal scar orientation on flakes in levels L and M was tested. No significant relationship existed between the distribution of dorsal scar orientation on flakes in level L and M as X^2=0.90 with *df*=15. The results of these statistical tests determine no relationship exists between any of the attributes on flakes in levels L and M.

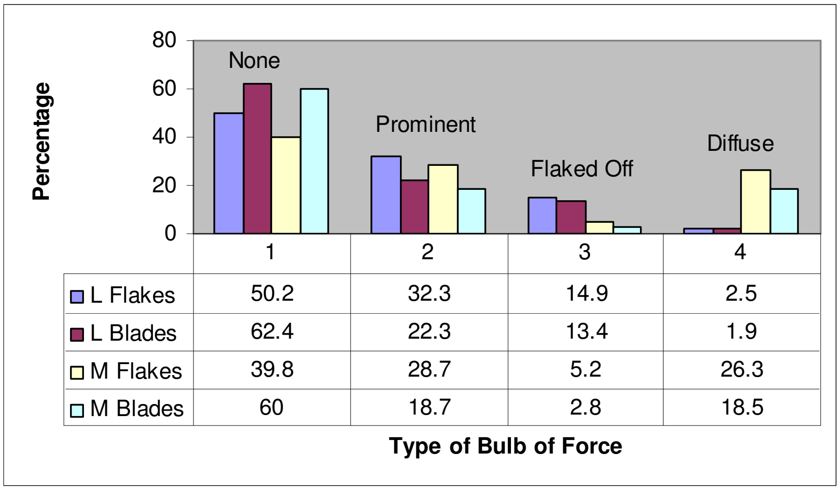


Figure 5.7: Comparison of Frequencies of Type of Bulb of Force in Levels L and M

Additional chi-square tests for independence were performed in order to investigate the relationship of attributes on blades from levels L and M. As was reported with the chi-square tests above all tests were performed at a level of significance of 0.05. The number of blades with and without platforms do not have a significant relationship with X^2=0.42 with *df*=1. The results of the chi-square test performed on the numbers of platform types in levels L and M was X^2=0.99 with *df*=6. The results of the chi-square test performed to examine the relationship between varying amounts of cortex on blades in levels L and M was X^2=0.78 at *df*=5, or not significant. The results of the chi-square performed to examine the relationship between the bulb of force on blades in levels L and M was X^2=1.45 with *df*=3 or no relationship exists. The chi-square was also performed to investigate the relationship between types of termination on blades in levels L and M. The results was X^2=9.01

with *df*=9 or not significant. Finally, a chi-square test was performed in order to study the relationship between dorsal scar orientation on blades in levels L and M, the result was X^2=0.96 with *df*=15. The results of these statistical tests determine no relationship exists between any of the attributes on blades in levels L and M.

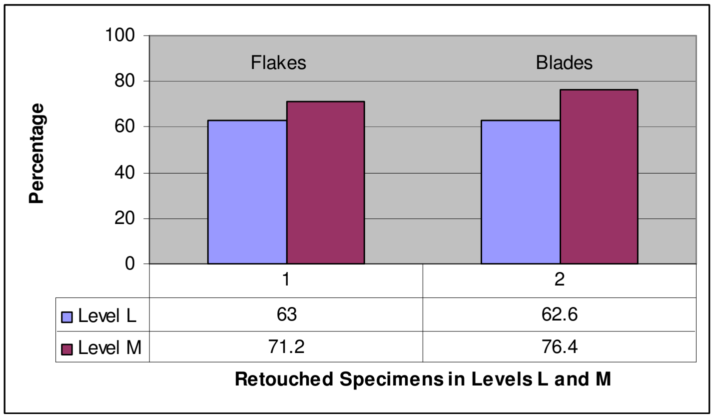


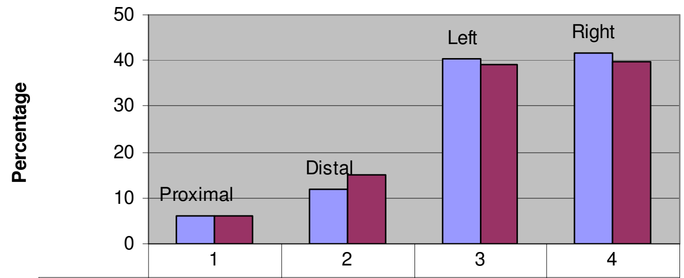
Figure 5.8 Comparisons of Retouched Specimens in Levels L and M

Finally, a chi-square for independence was performed to test the relationship between cortical and non-cortical flakes and blades in both levels. Both of these tests showed significant relationships between flakes and blades with and without cortex. The results of the chi-square from level L was 7.2 with a 95% confidence interval (0.05) and *df*=1. The result of the chi-square from Level M was 6.5 with a 95% confidence interval (0.05) and *df*=1. The level of significance is 2.07. This shows a relationship exists between the number of cortical and non-cortical flakes and blades in both levels.

Results of Retouch Analysis Comparison between Level L and M

The extent of retouch between the two levels will be discussed. Overall retouch is frequent in both levels. In level L, 63% of flakes are retouched while

62.6% of blades are retouched. Level M shows slightly more retouch with 71.2% of the flakes retouched and 76.4% of blades presenting with retouch. Retouch is slightly more frequent in level M than was observed in level L.



	1	2	3	4
Blades L	6.1	11.7	40.4	41.7
Blades M	6	15.2	39	39.7

Figure 5.9: Comparison of Location of Retouch on Blades in Levels L and M

The location and amount of retouch on blades does not differ greatly from level L to M (see Figure 5.9). Slight amounts of retouch were observed on proximal ends of blades in levels L and M only differing by 0.1%. Retouch on distal edges of blades were slightly more common in level M but only by 3.5%. Amounts of retouch on the left and right edges remain almost constant with frequencies within 2% of each other.

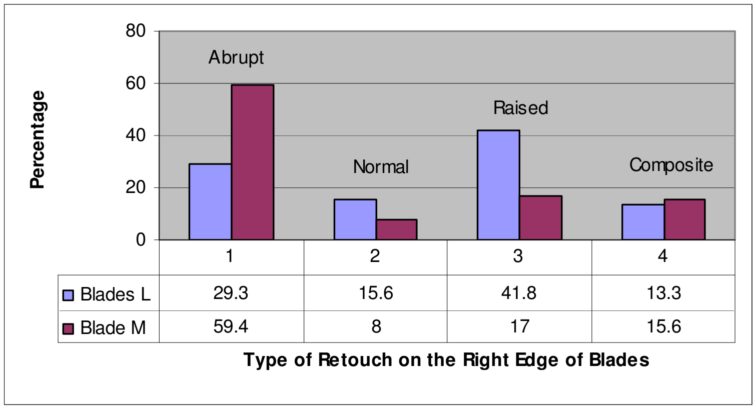


Figure 5.10: Comparison of Types of Retouch on the Right Edge of Blades.

Retouch on the right edge of blades showed a slight change from levels L to M (see Figure 5.10). In level L, raised retouch is most common while abrupt retouch is less common. In level M the opposite is true as abrupt retouch is most common while raised retouch is less common. Additional distinction in retouch on the right edge of blades is seen in that normal retouch is nearly twice as common in level M as in level L.

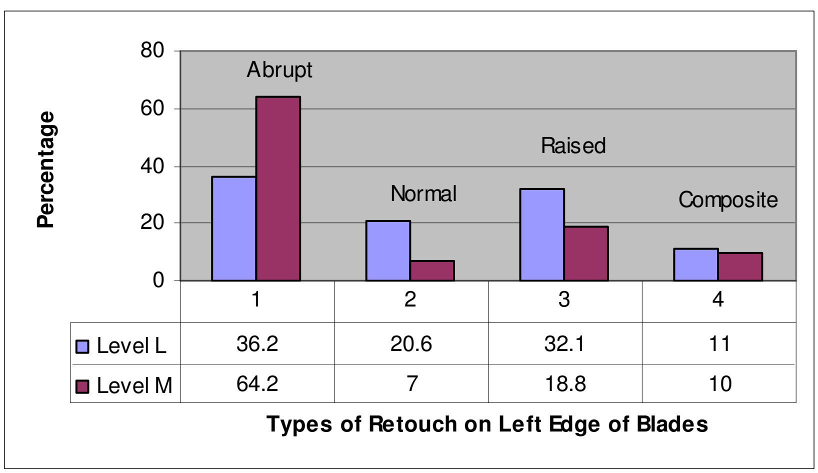


Figure 5.11: Comparison of Types of Retouch on Left Edge of Blades

Retouch on the left edge of blades also shows slight change from levels L to M (see Figure 5.11). In level L, the frequencies of abrupt and raised retouch are almost even (differing by 4.1%) with a healthy proportion of normal retouch. A shift to a preference for abrupt retouch can be observed from level L to level M where abrupt retouch constituted over half of all types of retouch. These data are important as the chi-square test for independence showed a significant relationship between the types of retouch on the left edge of blades.

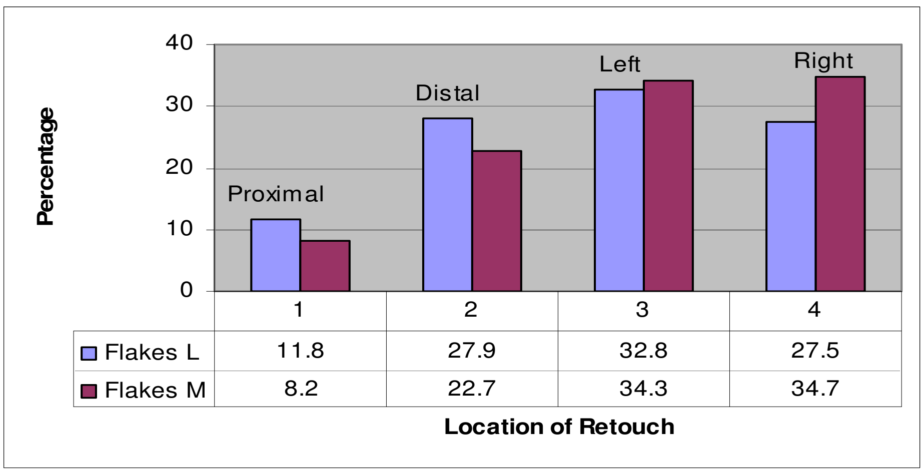


Figure 5.12: Comparison of Location of Retouch on Flakes in Levels L and M

The frequency of retouch on each margin of flakes remains relatively constant from level L to M (see Figure 5.12). Retouch on the proximal edge of flakes decreases slightly (3.6%) from level L to M. Retouch on the distal edge of flakes is slightly more frequent (5.2%) in Level L. Frequencies of retouch on the left edge of flakes is analogous showing a difference of 1.5%. The right edge of flakes saw slightly less comparable amounts of retouch in both level L and M differing by 7.2%.

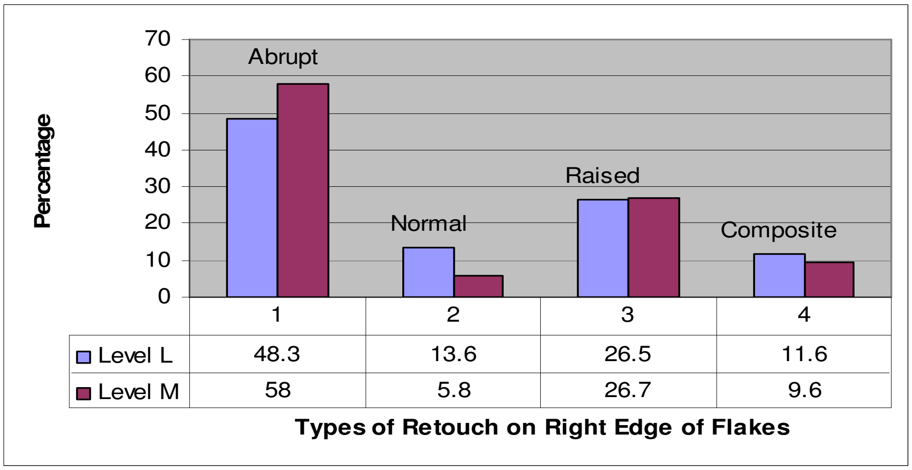


Figure 5.13: Comparison of Types of Retouch on the Right Edge of Flakes

Slight differences are observed in the proportion of types of retouch on the right edge of flakes in level L and M (see Figure 5.13). Abrupt retouch is most commonly encountered, but with higher frequencies in level M. The amount of normal retouch decreased by half from level L to M while the amount of raised retouch shows a difference of only 0.2%. Flakes with composite retouch show a decreased proportion in level M.

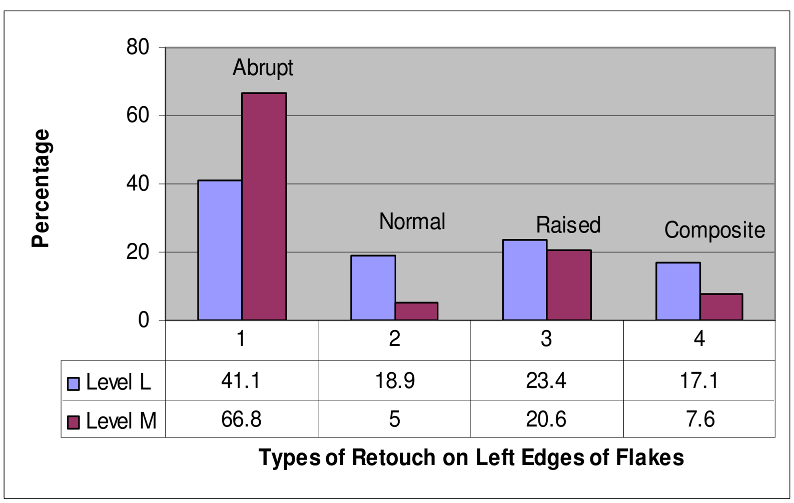


Figure 5.14: Comparison of Types of Retouch on the Left Edges of Flakes

The frequencies of types of retouch on the left edges of flakes reflect changes from level L to M (see Figure 5.14). Abrupt retouch increases by 25.7% in level M as compared to level L. The amount of normal retouch decreased from level L to M by 13.9%. The proportion of raised retouch stayed within 2% in both levels while composite retouch was reduced by 9.5%.

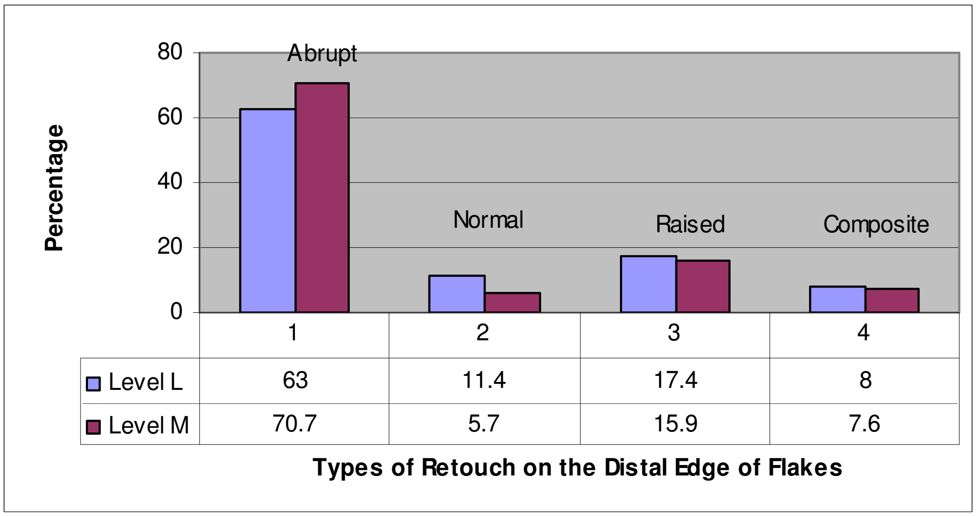


Figure 5.15: Comparison of Types of Retouch on the Distal Edge of Flakes

A slight change in the frequency of types of retouch on the distal edge of flake occurs from level L to M (see Figure 5.15). The frequency of abrupt retouch increases by 7.7% in level M while the amount of normal retouch declines by 5.7% in level M. The frequency of raised retouch also declines in level M showing a 1.5% difference.

Statistical Tests: Retouch Analysis

The chi-square test for independence was performed in order to test the relationship between the location of retouch on flakes and blades between levels. A chi-square test of independence was performed to examine the relation between the amounts of retouch on each edge on flakes in both levels. The relationship between these variables was not significant, $X^2 = 0.09$, $p < 0.05$ with df=3. The result of this test shows there is no relationship between the amount of retouch on each margin in level L and M. A chi-square test for independence was performed for the type of retouch on the distal edge of flakes. The result of this test was $X^2 = 0.13$, $p < 0.05$ with *df=3*. This test was not significant and shows no relationship between the types of retouch on the right edge of flakes in level L or M. A chi-square test for independence was performed for the type of retouch on the left edge of flakes in both levels. The result of this test was $X^2 = 3.13$ $p < 0.05$ with *df=3*. This test showed no relationship between the types of retouch on left edge of flakes in both levels. A chi-square test for independence was performed for the type of retouch on the right edge of flakes in both levels. The result of this test was $X^2 = 0.31$, $p < 0.05$ with *df*=3. This result shows no relationship between the amounts of different types of retouch on the right edge of flakes in level L and M. A chi-square test for independence was performed to test the relationship between amount of retouch on each margin of blades in level L and M. The result was $X^2 = 0.86$, $p < 0.05$ with *df*=3. This result shows no relationship between the amount of retouch on each margin of blades in level L and M. A statistical test was performed for the type of retouch on the right edge of blades in level L and M. The result of this test was $X^2 = 3.50$, $p < 0.05$ with *df*=3. The results were showed no relationship between the type of retouch on the right edge of blades in level L and M. Finally, a statistical test was performed for the type on retouch on the left edge of blades in level L and M. The result of this test was

$X^2=8.80$, $p>0.05$ at $df=3$. The relationship between the type of retouch on the left edge of blades in level L and M *was* significant.

Results of Data Analysis: Comparison with La Ferrassie and Facteur

Blades (2001) completed an extensive study of lithic technology during the Aurignacian period in the Vézère Valley. Her research consists of a compilation of data from Aurignacian assemblages from Facteur and La Ferrassie. Data from Facteur was from assemblages recovered in levels 19 and 21. Assemblages from levels K6 and K4 provided data for the site of La Ferrassie. Levels K6 from La Ferrassie and 21 from Facteur are attributed to the Aurignacian I. Ferrassie K4 and Ferrassie 19 produced assemblages attributed to the Aurignacian II. An important difference is Facteur and La Ferrassie are rock shelters while Termo-Pialat is an open air site. But these sites are critical to the study of the Upper Paleolithic because stratigraphic excavations of these sites encountered multiple occupations during the Aurignacian. This allowed for the study of change over time and variability within the technocomplex. The scope of Blades' research included raw material utilization, intensity of reduction and extent of retouch in these assemblages. This work provides a framework within which other sites may be compared.

Blades' conclusion regarding technology at La Ferrassie and Facteur indicates Aurignacian occupants preferred to retouch larger blanks (2001: 129). The data from Termo-Pialat supports this model, reflecting larger flakes are more likely to be retouched (see Table 5.1). In both levels L and M, the relative frequencies of retouch grow with increases in flake size. This hypothesis has also been suggested for the Middle Paleolithic and Upper Perigordian (Chadelle 1983; Dibble et al. 1995).

Table 5.1: Relative Frequencies of Retouched Flakes by Length at Termo-Pialat				
Length (mm)	0-10	11-20	21-30	30+
Level L	37.5%	51.8%	59.7%	83.8%
Level M	14.2%	59.6%	72.5%	88.8%

Blades' data from La Ferrassie and Facteur examining technology noted blades with a width of 2 centimeters or larger were more likely to be retouched. The results she put forth was, the people of the Aurignacian had an inclination for retouching blades of this size (Blades 2001: 126). The data from both levels at Termo-Pialat is consistent with this theory (see Table 5.1). Blades from both levels at Termo-Pialat were more likely to be retouched when they were 2-3 centimeters wide than those less wide blades. Additionally, the blades with widths larger than 3 centimeters are even more likely to be retouched. The evidence suggests inhabitants of Termo-Pialat also preferred wider blades (see Table 5.2).

Table 5.2: Relative Frequencies of Retouched Blades by Width at Termo Pialat				
Width (cm)	0-1.20	1.21-2.00	2.01-3.00	3.01+
Level L	45.2%	56.7%	78.1%	82.7%
Level M	47.9%	44.9%	93.4%	100%

Results of Data Analysis: Comparison with Abri Pataud

Abri Pataud is cave site near Les Eyzies (Dordorge) with eight distinct Aurignacian deposits. The Aurignacian deposits have been attributed to distinct phases of the Aurignacian (Bricker 1995). Couche (level) 6 was determined to be evolved Aurignacian, couche 7 and 8 were intermediate Aurignacian, couch 9 and 10 were tenuously attributed to the intermediate Aurignacian, couch 11 and 12 ancient Aurignacian and couch 13 and 14 basal Aurignacian.

Most important for this research is the well documented excavation techniques and published data on the assemblages (Movius 1977; Chiotti 2005). This provides a solid resource of data for other Aurignacian sites in the region, such as Termo Pialat, to be compared against them. Chiotti (2005) completed an exhaustive study of the bone and lithic industries of the Aurignacian which will be the source of all data presented here. The following comparison will include data from intermediate and late Aurignacian.

Data from Abri Pataud is consistent with that of Facteur and Le Ferrassie in that larger flakes and blades are more likely to be retouched. Data from assemblages attributed to intermediate and late Aurignacian at Abri Pataud levels 6-10 will follow. This section will include data on frequency of retouched pieces. Additionally, the data regarding the standardization of blank size will also be presented. Data from Abri Pataud will then be compared to the data from Termo Pialat, Le Ferrassie and Facteur.

Level six at Abri Pataud produced an assemblage of chipped stone with 27.7% retouched pieces. The retouched flakes make up 60.8% of the retouched items from level six. Flakes with retouch are most common with a length of 25-49 mm and a width of 20-39 mm (Chiotti 2005:281). Blades with retouch are most common with a length of 45-60 mm width of 20-29 mm (*ibid*: 284).

Level seven at Abri Pataud was broken into two vertical sections: upper and lower. The data will be presented in those same terms. The assemblage from level seven: Lower contains 17.7% retouched items. Just of half of the retouched items are blades (65.0%) (Chiotti 2005: 231). Flakes are most likely retouched at the size of 30-69 mm and a width of 20-44 mm (*ibid*: 232). Retouched blades are most common with a length of 50-74 mm and 20-29 mm in width. The assemblage from level seven: Upper contained 23.4% retouched pieces, the majority of which was flakes (Chiotti 2005: 261). Retouch on flakes showed a bimodal distribution with a peak at 20-34 mm and 40-59 mm. All the retouched blades have a length of 15-25 mm and a mean width of 19.6 mm.

Level eight at Abri Pataud produced an assemblage with 12.5% of retouched pieces. Flakes are more likely to be retouched making up 64% of retouched pieces (Chiotti 2005: 190). Flakes are more likely to be retouched with a length of 25-49 mm and a width of 25-44 mm (*ibid*: 191). Blades are more likely to be retouched with a length of 55-59 mm and a width of 20-29 mm (*ibid*: 193).

Level nine produced a small assemblage with 308 items. Retouched items totaled 9.7% of the assemblage (n=30) over half of which were flakes (n=20 or 66.7%) (Chiotti 2005: 178). Level 10 produced an assemblage with 9.9% retouched pieces (*ibid*: 166). Of this small percentage of retouched items, 63.5% are flakes. Retouch is found on flakes with a width of 30-34 mm and a length of 45-60 mm (*ibid*: 167).

The number of retouched specimens from each level of Abri Pataud is lower than the amount of retouched items from Termo-Pialat. Level 6 at Abri Pataud has the highest percentage of retouch with 27.7% of the assemblage. This is considerably lower than the levels seen in Termo-Pialat. There was less retouching of both flakes and blades at Abri Pataud than was performed at Termo-Pialat. Abri Pataud also shows less standardization of blank size than was observed at Termo-Pialat, Le Ferrassie or Facteur. Nevertheless, wider and longer blades were preferred by the Aurignacian inhabitants of Abri Pataud.

Results of Data Analysis: Comparison with Caminade Est and Le Flageolet I

Data from the sites of Caminade Est and Le Flageolet I are also appropriate to compare with Termo-Pialat. Both sites are rock shelters with deeply stratified Upper Paleolithic deposits located in close proximity to Termo-Pialat. Due to the richness of the assemblages and the recurring deposits, scholars presume both sites to be occupation or habitation sites instead of short term specialization sites (Cole 2001: 128). Level G from Caminade Est and levels IX and XI from Le Flageolet I are deposits containing Aurignacian materials. The data presented was gleaned from a study examining Aurignacian and Chatelperronian technology. These data present lower amounts of retouch among these Aurignacian deposits than is present at Termo-Pialat. A total of 9% of specimens from Caminade Est level G presented retouch. A total of 6% of specimens from Le Flageolet I level XI presented retouch while 13% of specimens from level IX at the same site showed evidence of retouch (*ibid*: 137).

Final Conclusions and Future Research

The assemblage at Termo-Pialat represents a sample from an Aurignacian campsite where people were producing blanks for tools and retouched them into scrapers, burins and retouched blades. The *chaîne opératoire* of both levels reflects several steps in lithic technology including cobble reduction, retouching blanks and formal tools. Change between level L and M was present in slight amounts in attributes such as termination and frequencies of retouch.

In comparison with other sites in the area, the assemblages from Termo-Pialat presented much higher levels of retouch than what is reported at Facteur, Le Ferrassie, Abri Pataud, Caminade Est and Le Flageolet I. This indicates activities at Termo-Pialat were focused on retouching blanks in order to manufacture tools. The low frequency of retouched items in Aurignacian deposits at other sites in the immediate area suggests retouching was not a prominent activity. One possible indication of these data suggests retouched items from Termo-Pialat were imported to other habitation sites in the region.

This research would be well supplemented with the examination and analysis of other assemblages recovered from Termo-Pialat and a visit to the site itself. A critical aspect that needs to be determined is well-defined stratigraphy and boundaries of the site. Further investigation would supplement the sparse data available regarding the extent of the site and stratigraphy. All areas of previous excavation should be located and documented. Unfortunately, the current landowner is not welcoming to scientific investigation of the archaeological site (Personal

Communication Vercoutere 2006). Research that could be conducted includes analysis of the other assemblages which are housed in museums. The assemblages from the early excavations at Termo-Pialat are housed at the Musée de Périgord in Périgueux and would benefit from a thorough documentation. The remaining levels of material (level N and D) housed at University of Kansas could also be analyzed to provide additional data for comparison. Any or all of the suggested research would enhance the findings of the present study.

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Appendix A: Explanation of Coding

Debitage Analysis

Spc#--Specimen Number
L-indicates Level L as marked on each piece
M-Indicates Level M as marked on each piece

Plat: Y/N

Plattype:
AN: Angled
CTX: Cortex
FC: Faceted
FO: Flaked Off
FL: Flat
NA: Not Available
IN: Indeterminate

Term: Termination Types:
NM-Normal
HG-Hinge
ST-Steppe
OT-Outre Passe
IN-Indeterminate
IN(RT)-Indeterminate due to Retouch

Bulb:
PR: Prominent
DF: Diffuse
FO: Flaked Off
IN-Indeterminate

Port:
PD-Primary Decortication
SD-Secondary Decortication
TD-Tertiary
NC-No Cortex, No Platform
CNP-Cortex, No platform
SH-shatter
IN-indeterminate

Seg:
CO-Complete
PR-Proximal
DS-Distal
MD-Midfragment

Drscrar: Dorsal Scars: Y/N

Drscror: Orientation of dorsal scars
1-from the proximal segment of the specimen
2-point of origin of dorsal scar is the left edge of the specimen
3-point of origin of dorsal scar from the right edge of specimen
4-point of origin of dorsal scar from the distal end of the specimen
*In the event of multiple dorsal scars each will be included.

Cortex %: Amount of cortex on Dorsal Surface of Piece
0: None present
1: 1-25%
2: 26-50%
3: 51-75%
4: 76-99%
5: 100%

Len: Length**:**
This category measures the length of the piece from the striking platform to its termination in millimeters. All measurements were taken with digital calipers.
Wdth: Width**:**
This category measures the widest point at a 90 degree angle relative to the length of the artifact. Digital calipers were used for this measurement.
Wght: Weight**:**
Each specimen was weighed in grams to the hundredth on a digital scale.

Rtch: Retouch: Y/N
*If Y, then see other retouch database.

Retouch Analysis

Type of Retouch:
ABR: Abrupt
NM: Normal
RS: Raised

Extent of Retouch:
CT: Continuous

DSC: Discontinuous
PT: Partial

Appendix B:
Illustrations of Artifacts from
Levels L and M at Termo-Pialat

The following drawings were made by the author during analysis. Each artifacts is paired with the original number it was assigned. The list of the type of tools it was assigned will now be presented.

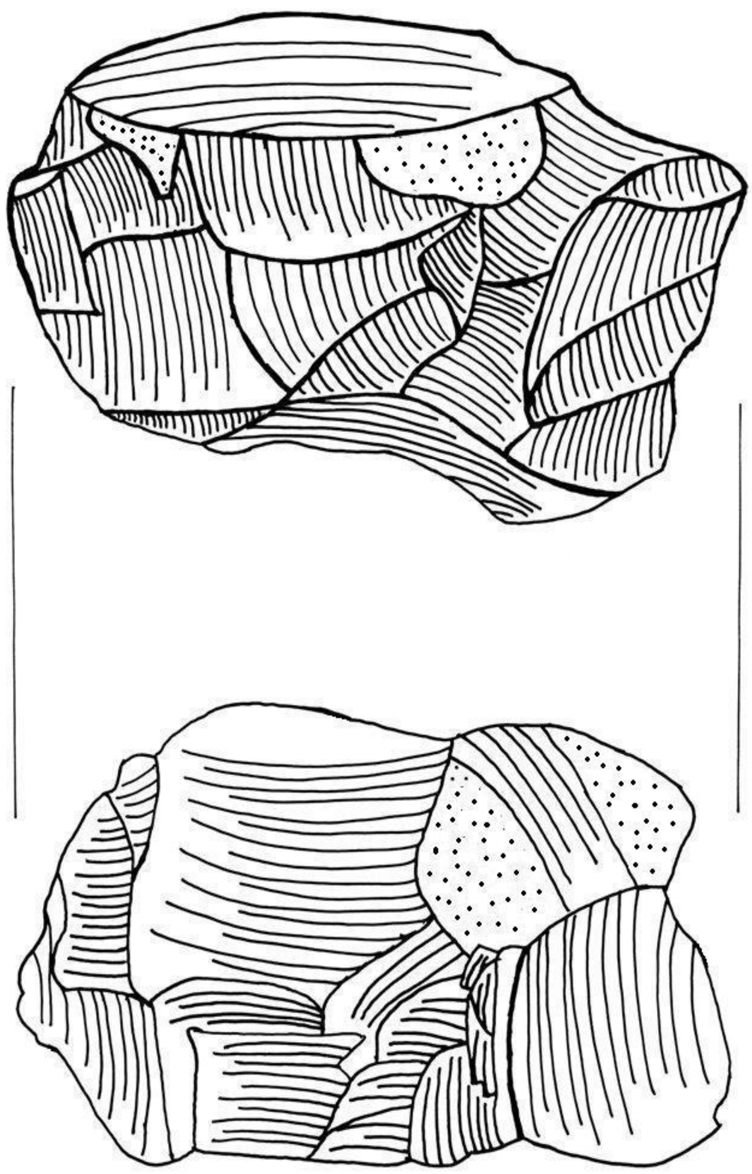
Level L:
L3: Bi-Directional Core
L5: Multi-Directional Core
L41: Uni-Directional Core

L9: Simple End Scraper
L15: Simple End Scraper
L18: Flat Nosed Scraper
L19: Scraper/Burin
L24: Side Scraper
L45: Denticulate
L46: Notch
L65: Denticulate
L69: Side Scraper
L129: Truncated Blade
L210 Flat Nosed Scraper
L393: Denticulate
L398: Retouched Blade
L465: Atypical End Scraper (Scraper on Truncated Blade)
L937: Asymmetrical Dihedral Burin
L938: Flat Nosed Scraper

Level M:
M4: Uni-Directional Core
M6: Bi-Directional Core
M8: Multi-Directional Core
M21: Thick Nosed Scraper
M23: Retouched Flake
M24: Denticulate
M30: Retouched Blade
M52: Retouched Blade
M130: Convex Truncation on Retouched Blade
M132: Busque Burin
M273: Notch
M276: Simple End Scraper
M296: Notch
M322: Burin on Oblique Truncation

M350: Notch
M378: Asymmetrical Burin
M387: Nosed Scraper
M388: Simple End Scraper
M491: Notch
M640: Simple End Scraper
M833: Simple End Scraper
M834: Nosed Scraper
M835: Scraper/Burin
M837: Asymmetrical Burin
M838: Simple End Scraper
M1000: Thick Nosed Scraper
M1001: Simple End Scraper
M1002: Pick
M1005: Multiple Mixed Burin

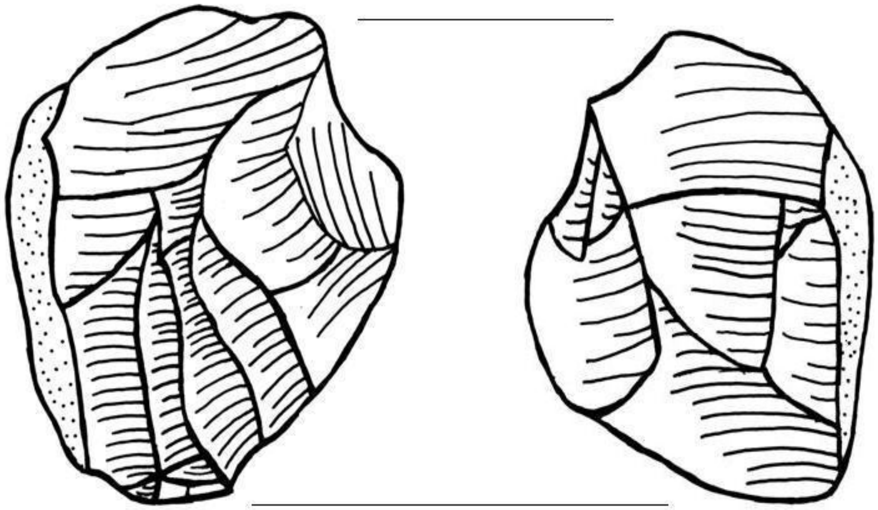
L 5



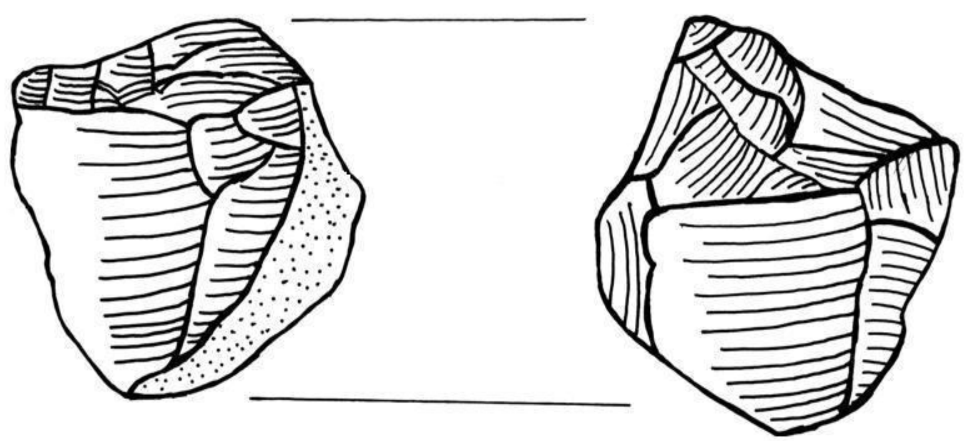
Descriptions: L5: Multi-Directional Core

Ratio 1:1

L 3



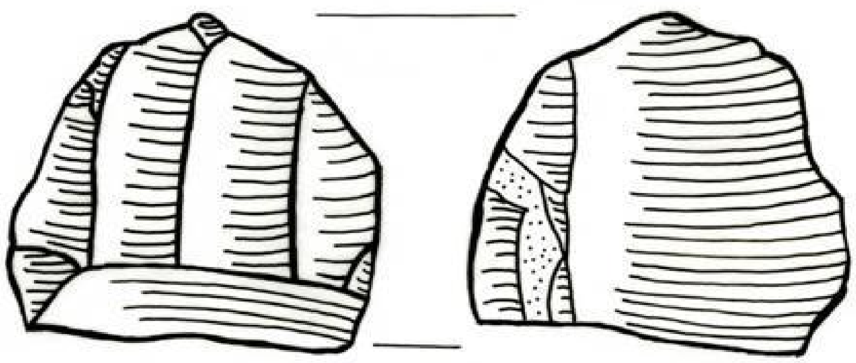
L 41



Descriptions L3: Bi-Directional Core, L41: Uni-Directional

Ratio 1:1

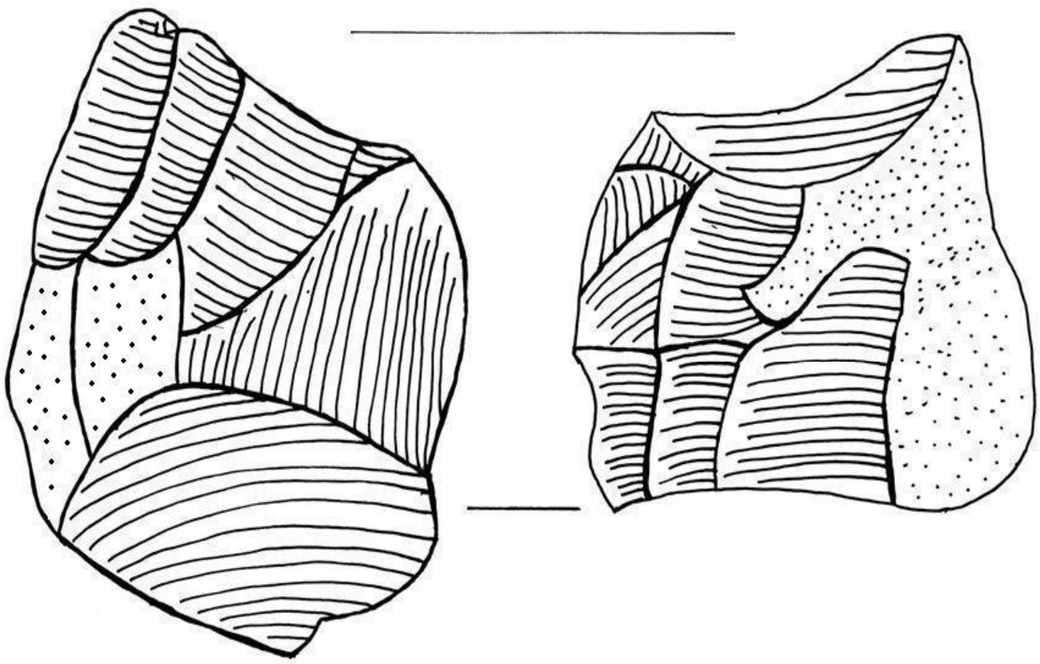
M4



Ratio 1:1

Description: M4: Uni-directional Core

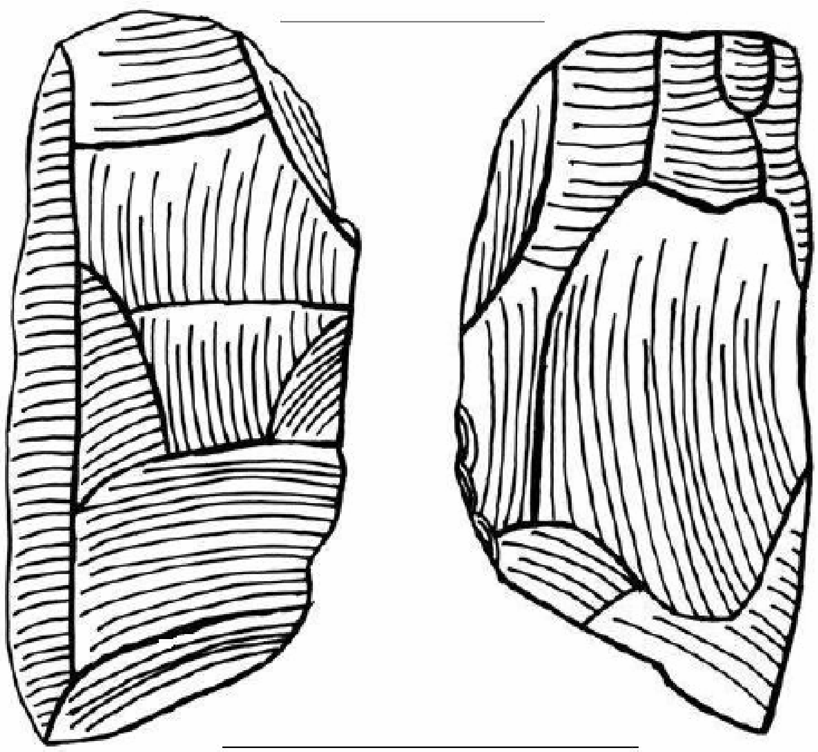
M 6



Description: M6: Bi-Directional Core

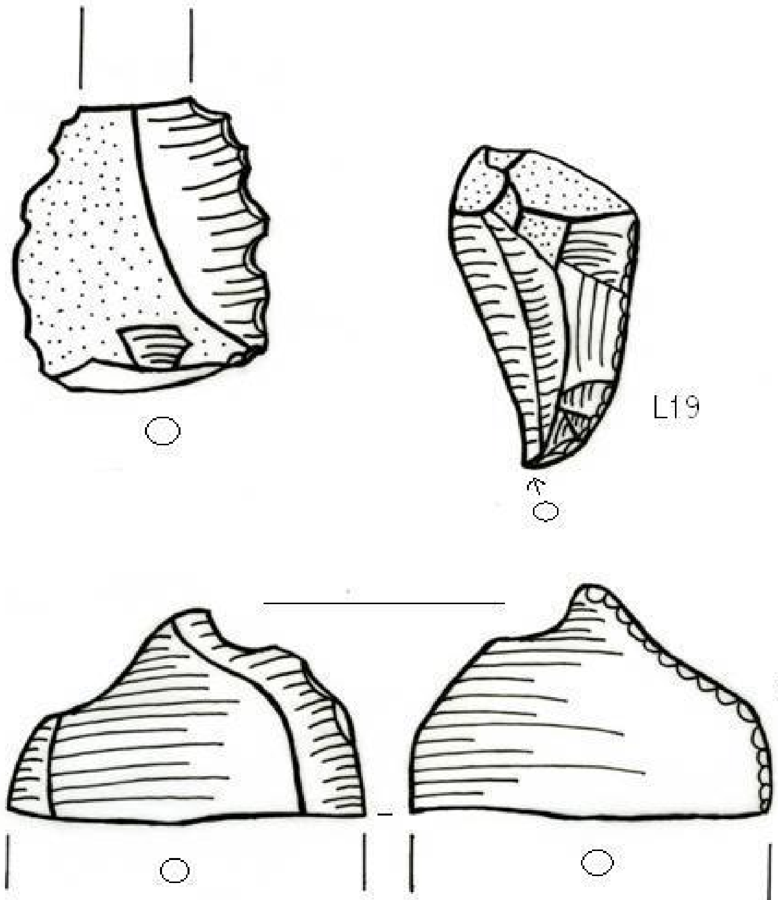
Ratio 1:1

M 8



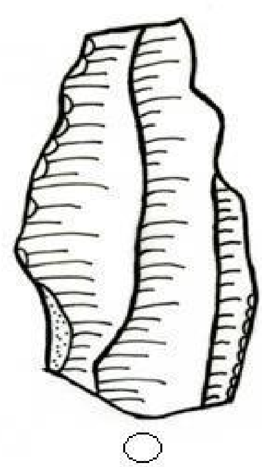
Ratio 1:1

Description: M8: Multi-Directional Core



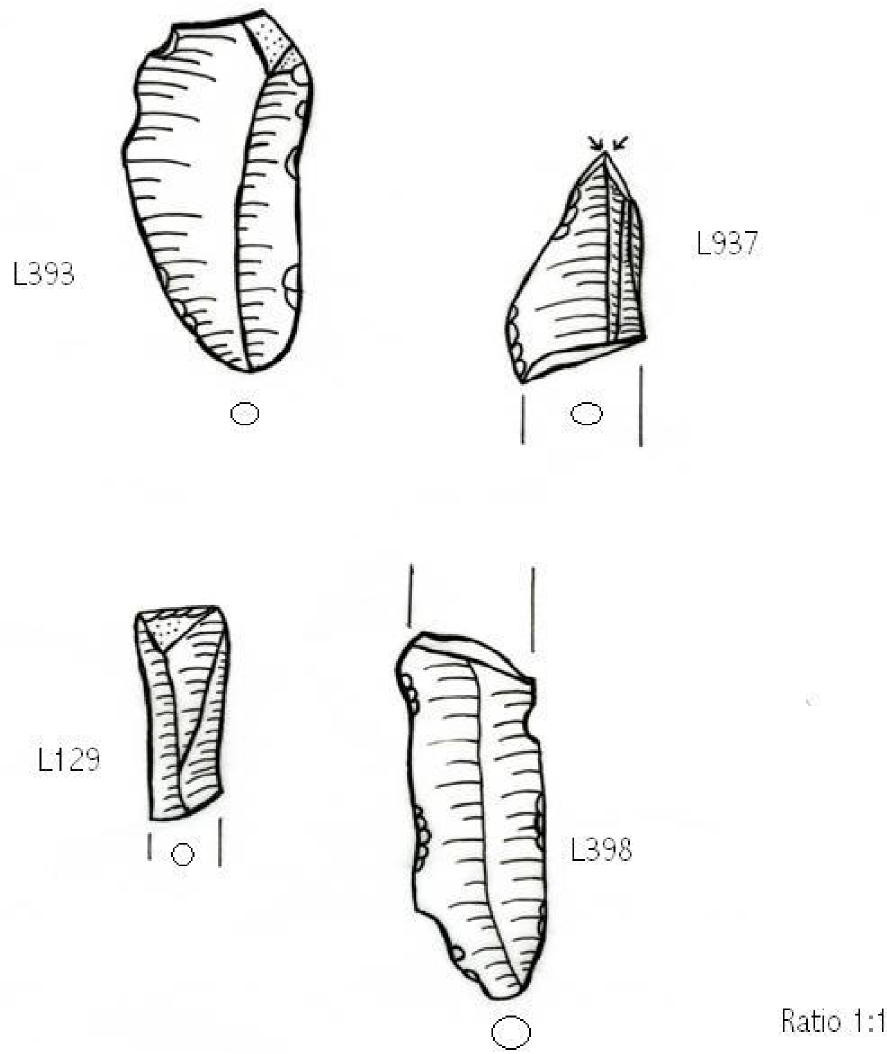
L65 L19 L46

L45

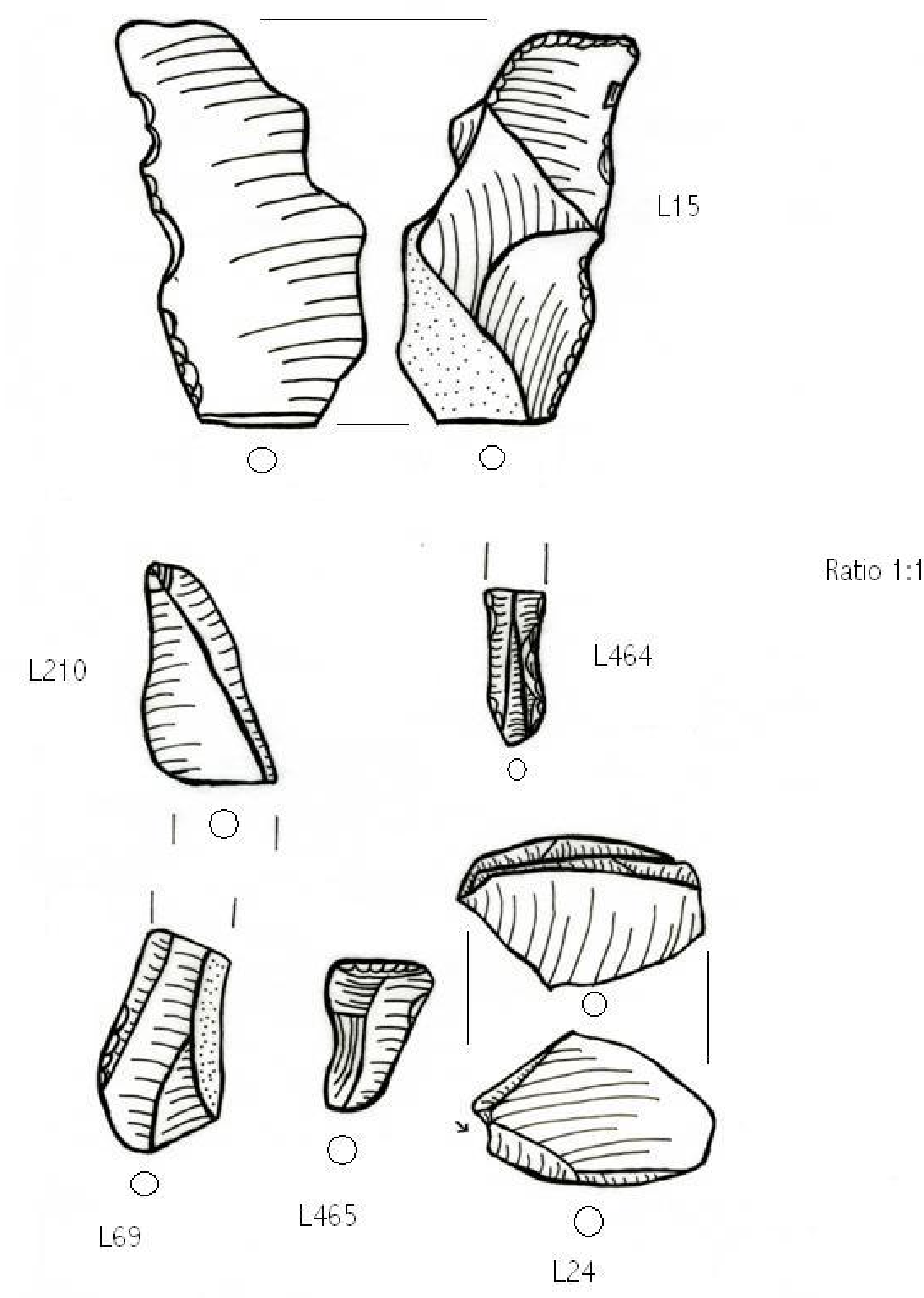


Description: L45: Denticulate, L46: Notch, L65: Denticulate, L19: Scraper/Burin

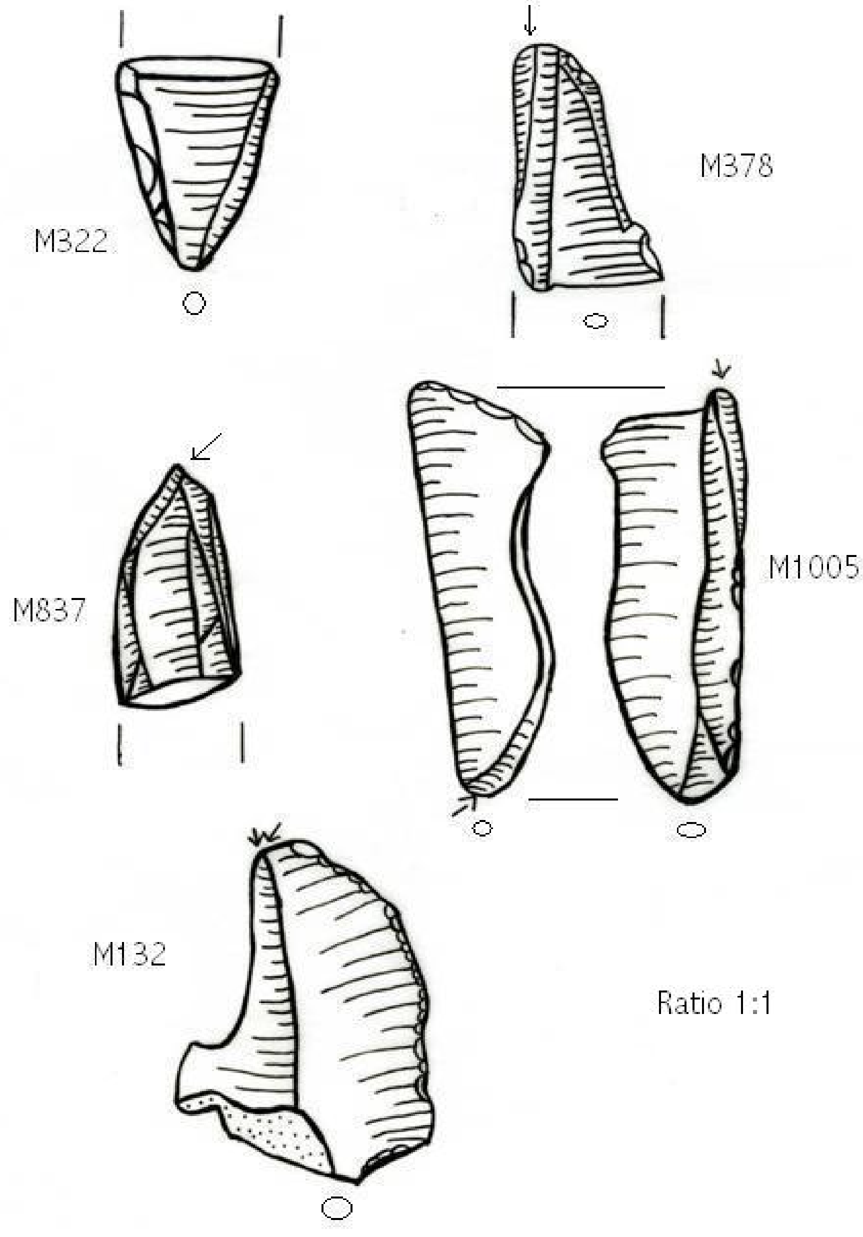
Ratio 1:1



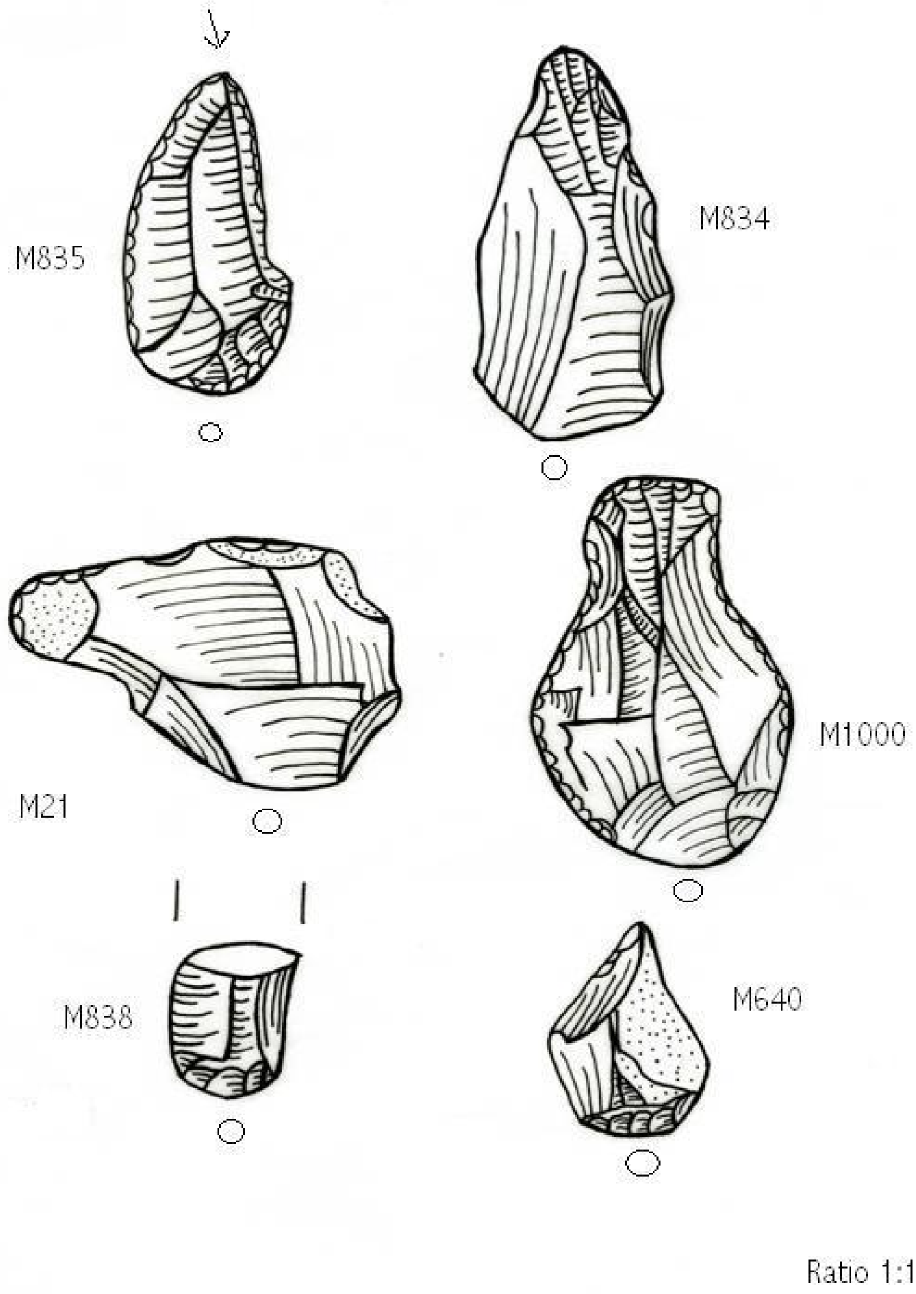
Descriptions: L129: Truncated Blade, L398: Retouched Blade, L393: Denticulate, L937: Asymetrical Dihedral Burin



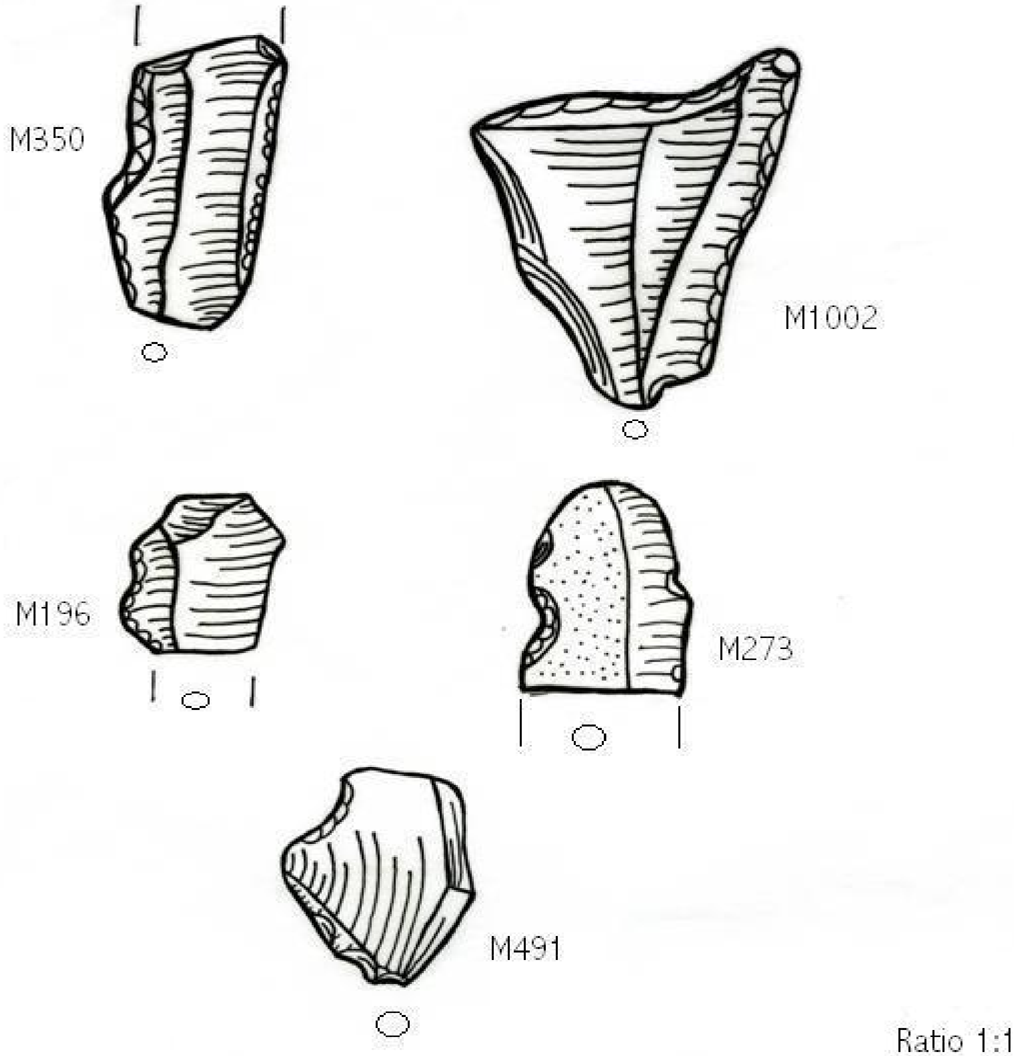
Descriptions: L69: Side Scraper, L465:Scraper on Truncated Blade, L24:Burin on a Flake, L 464: Backed Bladelet, L210: Flat Nosed Scraper



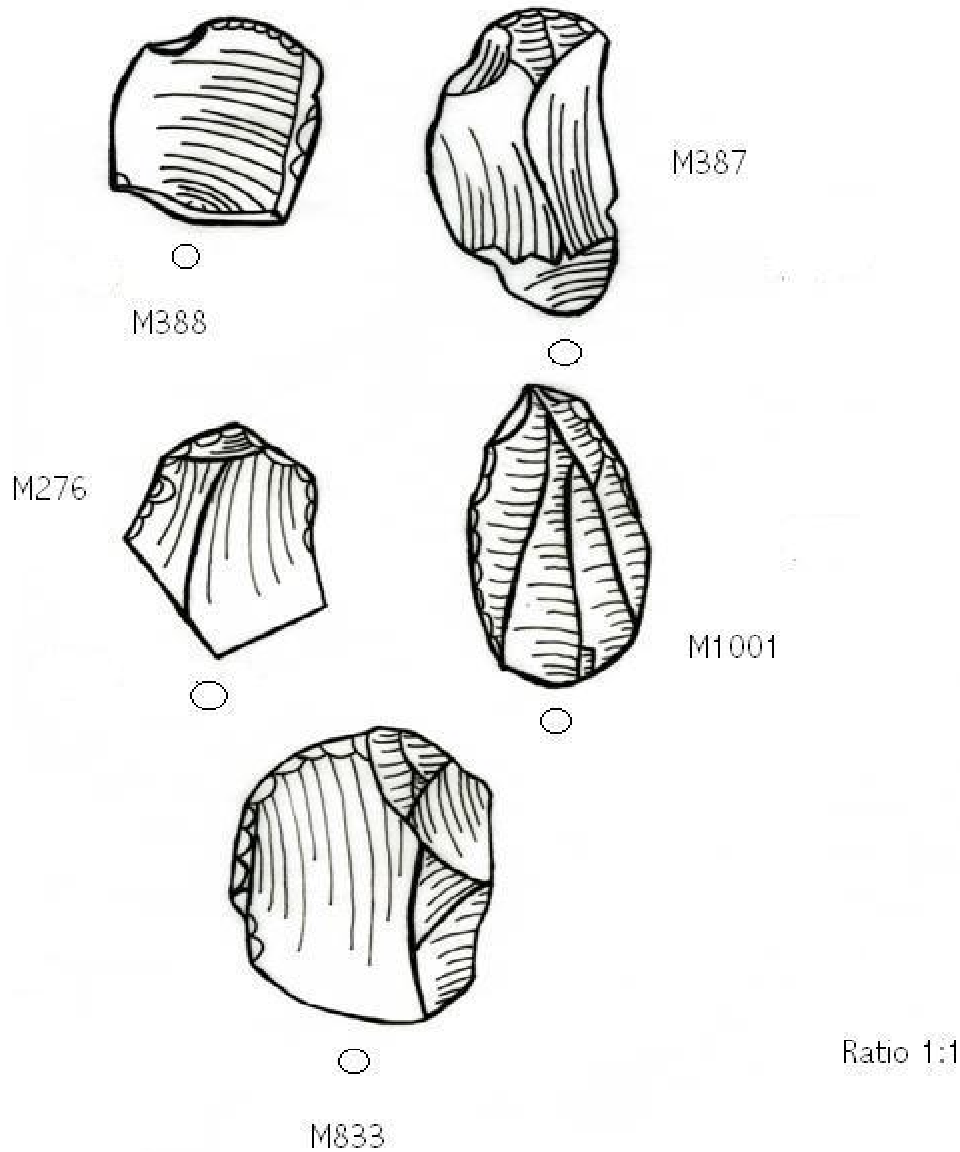
Descriptions: M132: Busque Burin, 1005: Multiple Mixed Burins, M837: Asymmetrical Burin, M322: Burin on Oblique Truncation, M378: Asymmetrical Burin



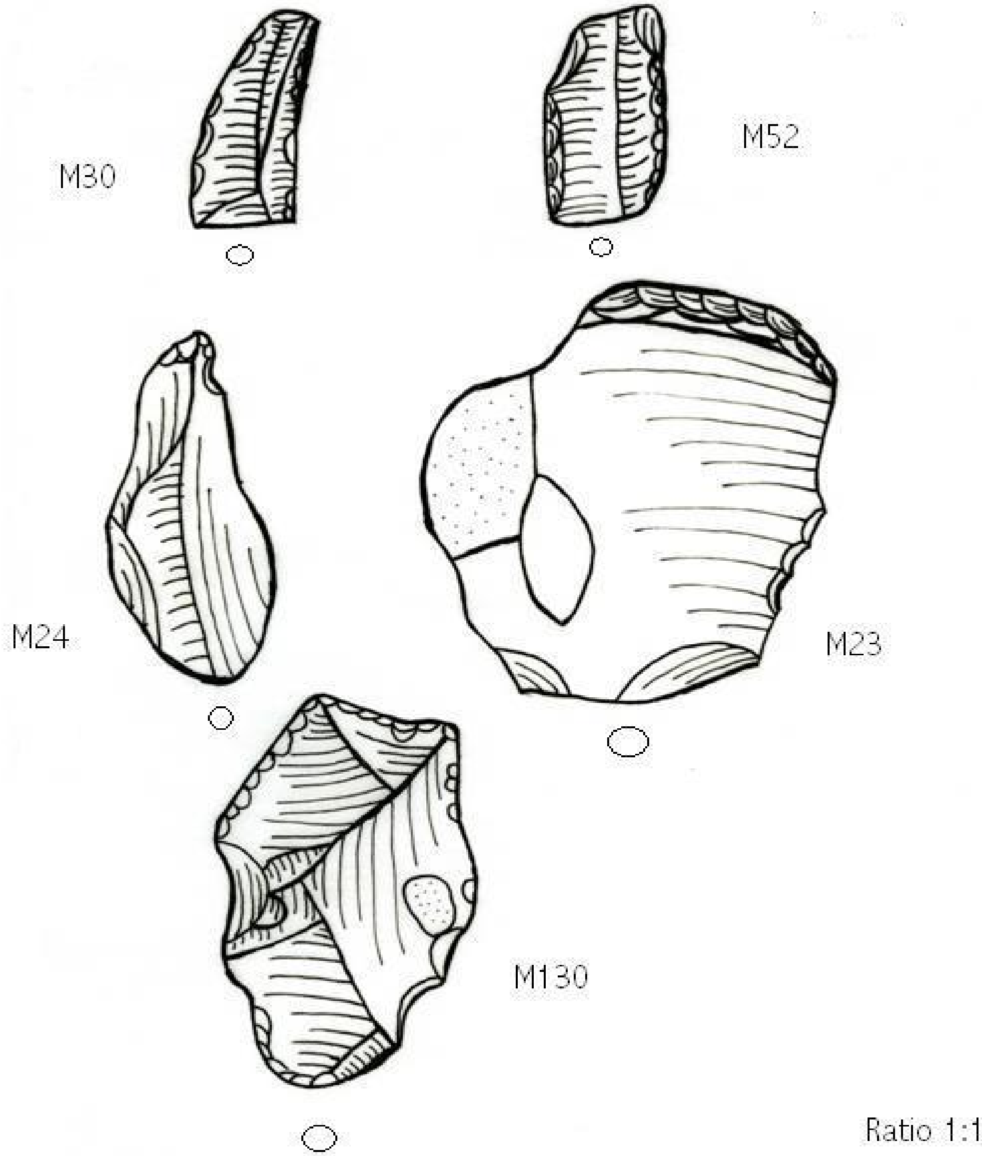
Descriptions: M838: Simple End Scraper, M640 Simple End Scraper, M1000: Thick Nosed Scraper, M21:Nosed Scraper, M835: Scraper/Burin, M834: Thick Nosed Scraper



Descriptions: M491: Notch, M296: Notch, M273: Notch, M350, M1002: Pick



Descriptions: M833: Simple End Scraper, M1001: Side Scraper, M276: End Scraper, M388: End Scraper, M387: Nosed Scraper



Descriptions: M23: Retouched Flake, M24: Denticulate, M30: Retouched Blade, M52: Retouched Blade, M130: Convex Truncation on Retouched Blade

Appendix C: Debitage Analysis Database

LEVEL L DEBITAGE ANALYSIS DATABASE

Spc#	Typ	Por	Plat	Plttyp	Cort%	Bulb	Term	Drscrar	Drscror	Len	Wdth	Wght (g)	Sgmt	Retouch	Notes
L-1	COR											4183			
L-2	COR											229			
L-3	COR											261.8			
L-4	COR											545.7		Y	L00
L-5	COR													Y	L00
L-6	FL	SD	Y	AN	1	PR	NM	Y	1	83.5	65.6	112	CO	Y	
L-7	FL	TD	Y	AN	0	PR	NM	Y	1,4	43.3	31.9	13.7	CO	Y	L0102
L-8	FL	TD	Y	AN	0	PR	NM	Y	1,4	58.3	34.1	22	CO	Y	L00
L-9	BL	TD	Y	AN	0	PR	NM	Y	1,4	65.1	33.7	39.1	CO	Y	L00
L-10	BL	NC	N	FO	0	PR	SN	Y	1,4	56.1	37.1	31.2	CO	Y	L00
L-11	FL	TD	Y	AN	0	PR	SN	Y	1,4	69.6	28.3	22	CO	Y	L0102
L-12	BL	NC	N	NA	0	NA	AX	Y	2,3	72.3	29.1	37.2	DS	Y	L0102
L-13	FL	SD	Y	AN	1	PR	SN	Y	1,4	30.3	27.2	9	PR	Y	L0102
L-14	FL	TD	Y	AN	0	PR	HG	Y	2,3,4	42.1	36.1	16.7	CO		
L-15	BL	SD	Y	CTX	1	PR	IN(RT)	Y	1,2,3	83.1	38.5	25.6	CO	Y	L0102
L-16	COR											235.6		Y	L00
L-17	FL	NC	N	NA	0	NA	NM	Y	1,2	71.3	48.9	65.3	DS	Y	L00
L-18	FL	SD	Y	FL	1	PR	NM	Y	1,2,3	41.8	51.3	18	CO	Y	L00
L-19	FL	CNP	N	NA	1	NA	OP	Y	1,4	54.7	28.9	22.6	CO	Y	L00
L-20	FL	SD	Y	FL	1	PR	NM	Y	3,4	30.7	30.2	6.6	CO	Y	L00
L-21	FL	SD	Y	AN	2	PR	AX	Y	1,2	52.1	48.5	35	CO	Y	L00
L-22	FL	TD	Y	FL	0	DF	SN	Y	1,2,4	50.5	32.6	10.9	MD	Y	L00
L-23	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,3,4	43.8	51.2	19.1	DS	Y	Burin attempt?
L-24	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	44	28.3	10.9	MD		
L-25	BL	CNP	N	NA	1	NA	SN	Y	1,4	59.1	26.9	34.8	CO	Y	L00
L-26	COR											130.7		Y	L00
L-27	FL	SD	Y	FL	1	DF	NM	Y	1,2,3,4	90.4	82.1	161.3	CO	Y	
L-28	FL	CNP	N	NA	1	DF	HG,NM	Y	1,3,4	93.8	50.4	96.5	DS	N	
L-29	FL	NC	N	NA	0	NA	HG	Y	1	36.1	18.8	7.2	CO	Y	L00
L-30	FL	PD	Y	AN	5	DF	NM	N	NA	86.4	51.7	92.8	CO	Y	L00
L-32	BL	SD	Y	CTX	1	DF	NM	Y	1,2,3	79.6	34	40.7	PR	Y	L
L-34	FL	CNP	N	NA	1	NA	OP	Y	1,2,3,4	57.1	29.2	19	CO	Y	L00
L-35	FL	SD	Y	AN	2	DF	AX	Y	1,2,4	98.5	25.1	59.8	CO	N	
L-36	FL	SD	Y	AN	1	PR	NM	Y	2,3,4	93.3	54	147.8	CO	N	
L-37	FL	SD	Y	FL	5	PR	NM	Y	1,2,3	44	35.5	19.3	CO	Y	
L-38	FL	SD	Y	FL	4	PR	ST	Y	1	62.4	42.3	71	CO		
L-39	BL	CNP	N	NA	4	NA	IN(RT)	Y	3	60.6	27.5	32	DS		
L-40	COR											83.2			
L-41	COR											127.7		Y	L02
L-42	COR											294.9		Y	
L-43	BL	CNP	N	NA	1	NA	HG	Y	1,4	43.3	24	6.7	MD	Y	L00
L-44	BL	NC	N	NA	0	NA	NM	Y	1,4	44.8	22.5	7	MD	Y	L00
L-45	BL	SD	Y	FL	1	PR	SN	Y	1,4	58.9	32.4	17.3	MD	Y	L0102
L-46	FL	NC	N	NA	0	NA	NM	Y	1	30.6	48.2	7.9	DS	Y	
L-47	BL	SD	Y	FL	1	PR	ST	Y	1,2	45.3	28.5	10.1	CO	Y	L0102
L-48	BL	SD	Y	FL	3	PR	SN	Y	4	60	37.5	36.6	CO	Y	L00
L-49	BL	NC	N	NA	0	NA	SN	Y	1,4	46.6	14.5	3.7	MD	N	L00
L-50	BL	PD	Y	FL	5	DF	SN	N	NA	43.3	29.7	11.7	PR	Y	L0102
L-51	FL	PD	Y	FL	5	DF	HG	N	NA	41	37.8	12.1	CO	Y	L0102
L-52	BL	TD	Y	AN	0	PR	SN	Y	4	45.8	13.5	4.5	PR	Y	L0102
L-53	BL	TD	Y	AN	0	DF	HG,SN	Y	1,4	42.9	16.4	5.2	PR	Y	L00
L-54	BL	NC	N	NA	0	NA	SN	Y	1,4	59	24.4	15.5	MD	Y	L00
L-55	FL	SD	Y	AN	2	FO	NM	Y	1,2,3,4	107	69.6	187.8	CO	Y	L0102
L-56	BL	CNP	N	NA	1	FO	SN	Y	4	66.6	29.5	21.8	MD	Y	L0102
L-57	FL	TD	Y	RD	0	PR	HG	Y	1,2,3	41.6	49.8	27.9	CO	Y	L00
L-58	BL	CNP	N	NA	1	NA	AX	Y	1	40.2	35.9	15.6	MD	Y	L00
L-59	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	39.6	22.9	9.8	PR	Y	L00
L-61	BL	CNP	N	NA	2	NA	AX	Y	1	30.9	19.3	3.5	DS	Y	L00
L-62	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	35.7	18.4	4.9	MD	Y	L00
L-63	BL	NC	N	NA	0	NA	HG	Y	1,4	46.3	25.8	16	MD	Y	L00
L-64	BL	TD	Y	AN	0	DF	SN	Y	4	37.8	19.3	3.5	DS	Y	L00
L-65	BL	SD	Y	RD	3	PR	SN	Y	4	44.4	32.9	20.7	PR	Y	L00
L-66	BL	SD	Y	FL	2	DF	SN	Y	4	29.8	46.6	27.1	PR	Y	L0102
L-67	BL	NC	N	NA	0	NA	SN	Y	1,4	37.2	17	4.5	MD	Y	L0102
L-68	BL	NC	N	NA	0	NA	HG	Y	1,3	70.5	27	18.1	MD	Y	L00
L-69	BL	SD	Y	FL	2	PR	SN	Y	1,4	41.6	20.5	6.8	PR	N	L0102
L-70	BL	SD	Y	FL	1	DF	HG	Y	1,4	47.3	15.5	5.4	PR	N(FN)	L02
L-71	FL	NC	N	NA	0	NA	SN	Y	4	26	21.2	4	MD	N	L0102
L-72	BL	NC	N	NA	0	NA	SN	Y	1	19.6	16.7	1.6	MD	Y	L0102
L-73	BL	NC	N	NA	0	NA	SN	Y	IN	16.8	12.9	0.9	MD	Y	L0102
L-74	BL	NC	N	NA	0	NA	SN	Y	1,4	24.4	22.3	5	MD	Y	L0102
L-75	BL	CNP	N	NA	1	NA	SN	Y	1,4	47.1	17.4	8.1	MD	Y	L0102
L-76	FL	CNP	N	NA	5	NA	NM	N	NA	52.1	31.1	16.2	CO	Y	L0102
L-77	BL	NC	N	NA	0	NA	SN	Y	1,4	38.3	23.1	9.5	MD	Y	L0102
L-78	BL	TD	Y	FL	0	PR	SN	Y	1,4	36.4	30.6	12.4	PR	Y	L00
L-79	BL	NC	N	NA	0	NA	SN	Y	1,4	48.2	21.8	8.5	MD	Y	L0102
L-80	BL	NC	N	NA	0	NA	SN	Y	1,4	40.8	14.3	4.6	DS	Y	L0102
L-81	BL	NC	N	NA	0	NA	SN	Y	1,4	28.2	16.6	2.8	MD	Y	L02
L-82	FL	NC	N	NA	0	NA	SN	Y	1,4	40.7	17.5	5.1	DS	Y	L0102
L-83	BL	NC	N	NA	0	NA	SN	Y	1,4	39.5	19.1	7	MD	N	L00
L-84	FL	NC	N	NA	0	NA	IN(RT)	Y	3	25.5	30.6	5.4	DS	Y	L02
L-85	FL	PD	Y	FL	5	PR	NM	N	NA	23	36.9	7.7	PR	Y	L02

L-86	FL	CNP	N	NA	1	NA	HG	Y	1	36.5	28.3	11.4	DS	Y	L0102
L-87	BL	TD	Y	AN	0	PR	HG	Y	1,4	30	14.6	2.6	PR	N	L00
L-88	BL	NC	N	NA	0	NA	SN	Y	1,4	33.3	10.4	1.4	MD	N	L02
L-89	BL	NC	N	NA	0	NA	AX	Y	3,4	32.3	18.7	7.5	DS	Y	L0102
L-90	FL	NC	N	NA	0	NA	SN	Y	1,4	26.9	21.9	2.9	MD	N	L00
L-91	BL	TD	Y	AN	0	PR	AX	Y	2,3	49.3	13.3	5.2	CO	Y	
L-92	BL	NC	N	NA	0	NA	AX	Y	1,4	23.1	12.2	1.1	DS	N	L00
L-93	BL	NC	N	NA	0	NA	SN	Y	1,4	45.5	29	9.2	DS	N	L01
L-94	BL	NC	N	NA	0	NA	SN	Y	1,3,4	32.6	22.8	6.7	MD	Y	L0102
L-95	BL	TD	Y	AN	0	PR	SN	Y	1,4	21.7	13.2	1.9	PR	Y	L0102
L-96	FL	CNP	N	NA	3	NA	HG,NM	N	NA	13.3	32.5	2.6	DS	Y	L02
L-97	BL	NC	N	NA	0	NA	SN	Y	1	34.1	11.1	2.5	PR	Y	L01
L-98	FL	SD	Y	AN	1	FO	NM,SN	Y	1,2,3	26.3	23.3	5.6	CO	Y	L00
L-99	BL	NC	N	NA	0	NA	SN	Y	1,4	37.1	19.5	5.2	MD	Y	L00
L-100	FL	SD	Y	AN	3	DF	NM,SN	Y	2	31.3	36.8	9.5	CO	Y	L00
L-101	BL	NC	N	NA	0	NA	SN	Y	1,4	31.6	10.3	1.9	PR	Y	L0102
L-102	BL	NC	N	NA	0	NA	SN	Y	1,4	36.2	15.7	4	MD	Y	L0102
L-103	BL	NC	N	NA	0	NA	SN	Y	1,4	49.6	15.3	7.2	MD	Y	L0102
L-104	BL	TD	Y	AN	0	PR	SN	Y	1,4	15.9	28.6	2.4	DS	Y	L0102
L-105	BL	NC	N	NA	0	NA	OP	Y	1	38.5	24.5	3.8	DS	Y	L00
L-106	BL	NC	N	NA	0	NA	SN	Y	1	37.6	29.9	10	MD	Y	L00
L-107	BL	TD	Y	AN	0	PR	OP	Y	1,4	46.1	19.6	5.1	PR	Y	L0102
L-108	BL	TD	Y	AN	0	PR	HG	Y	1,4	30.3	19	4.2	PR	Y	L0102
L-109	BL	TD	Y	AN	0	PR	SN	Y	1,4	43.3	21.3	7.2	PR	Y	L00
L-110	BL	TD	Y	FC	0	DF	SN	Y	1,4	41.1	15	4.3	PR	Y	L00
L-111	BL	TD	Y	AN	0	DF	HG	Y	1,4	34.6	16.7	2.5	PR	Y	L0102
L-112	BL	NC	N	NA	0	NA	SN	Y	1,4	35.3	14.1	3.1	MD	Y	L00
L-113	BL	NC	N	FO	0	NA	SN	Y	1	31.4	20.2	3.3	MD	Y	L02
L-114	BL	NC	N	NA	0	NA	SN	Y	1,4	31.3	10.4	2.1	MD	N	L00
L-115	BL	NC	N	NA	0	NA	HG	Y	1	33.9	20.4	5.8	MD	N	L0102
L-116	BL	NC	N	NA	0	NA	SN	Y	1,4	31.2	11.9	1.6	MD	Y	L01
L-117	BL	NC	N	NA	0	NA	SN	Y	1,4	13.3	28.3	1.7	MD	Y	L02
L-118	BL	NC	N	NA	0	NA	SN	Y	1	36.2	14.2	2.9	MD	Y	L00
L-119	BL	NC	N	NA	0	NA	NM	Y	1	28	25.1	4.2	DS	Y	L0102
L-120	BL	NC	N	NA	0	NA	NM	Y	1,4	33.4	16.2	4	DS	Y	L0102
L-121	BL	TD	Y	AN	0	PR	SN	Y	1,3,4	35.2	14.9	3.8	PR	Y	L00
L-122	BL	NC	N	NA	0	NA	SN	Y	1,4	31.4	16.2	2.4	MD	Y	L0102
L-123	BL	NC	N	NA	0	NA	SN	Y	1	28	17.1	2.3	MD	Y	L0102
L-124	BL	NC	N	NA	0	NA	SN	Y	1,4	26.6	20.5	3.8	MD	Y	L0102
L-125	BL	TD	Y	FL	0	PR	SN	Y	1,4	29.9	23	4.3	PR	N	L00
L-126	BL	NC	N	NA	0	NA	OP	Y	1,4	23.4	14.1	1.6	MD	Y	L00
L-127	BL	CNP	N	NA	1	NA	SN	Y	1,4	27.6	16.6	3.4	MD	Y	L00
L-128	BL	TD	Y	AN	0	DF	ST	Y	1,4	29	11.4	1.5	PR	Y	L00
L-129	BL	CNP	N	NA	1	NA	NM	Y	1,4	24.5	12.7	2.6	DS	N	L02
L-130	BL	NC	N	NA	0	NA	SN	Y	1,4	31.2	21.9	5.3	MD	Y	L0102
L-131	FL	TD	Y	FL	0	DF	SN	Y	1,4	24	16.4	2.8	PR	Y	L00
L-132	BL	SD	Y	AN	2	DF	NM	Y	2,4	28.6	23.1	8.1	CO	Y	L00
L-133	BL	TD	Y	FL	0	DF	SN	Y	4	32.6	16.5	3.7	PR	Y	L00
L-134	BL	NC	N	NA	0	NA	SN	Y	1,3	13.5	10.4	0.7	MD	N	L0102
L-135	FL	NC	N	NA	0	NA	SN	Y	1,4	22.2	14.2	2	MD	Y	L01
L-136	BL	NC	N	NA	0	NA	SN	Y	1,3,4	26.5	10.3	2.3	MD	Y	L0102
L-137	BL	NC	N	NA	0	NA	SN	Y	1,4	16.9	21.9	1.8	MD	Y	L00
L-138	BL	NC	N	NA	0	NA	SN	Y	1	18.8	12.9	0.9	DS	Y	L0102
L-139	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	20.8	15.6	1.2	PR	Y	L0102
L-140	BL	NC	N	NA	0	NA	NM	Y	1,4	26.5	16.3	1.8	DS	Y	L00
L-141	FL	SD	Y	FL	1	DF	SN	Y	1	30	17.4	2	PR	Y	L0102
L-142	FL	NC	N	NA	0	NA	IN(RT)	Y	1	20.7	22.3	3.8	MD	Y	L00
L-143	BL	NC	N	NA	0	NA	SN	Y	1,4	30.8	11.2	1.2	MD	N(FN)	L0102
L-144	BL	NC	N	NA	0	NA	SN	Y	1,4	17.4	15.7	1.2	MD	Y	L00
L-145	BL	NC	N	NA	0	NA	SN	Y	1,4	12.4	16.8	0.9	MD	Y	L00
L-146	BL	NC	N	NA	0	NA	NM	Y	1	24.7	14.5	1.2	DS	Y	L0102
L-147	BL	NC	N	NA	0	NA	HG	Y	1,4	22	12.3	1.2	DS	Y	L00
L-148	BL	NC	N	NA	0	NA	SN	Y	1,4	24.1	11.4	1.6	MD	N	L0102
L-149	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	24.2	22	3.1	DS	Y	L0102
L-150	BL	TD	Y	FL	0	PR	SN	Y	1,4	23.3	11.5	0.8	PR	N	L00
L-151	BL	NC	N	NA	0	NA	NM	Y	1,4	24.2	19.1	3.9	DS	N	L00
L-152	BL	TD	Y	RD	0	PR	SN	Y	1,4	33.8	17.6	2.4	PR	N	L00
L-153	BL	CNP	N	NA	1	NA	NM	Y	1,4	16.7	14	0.7	DS	Y	L00
L-154	BL	CNP	N	NA	2	NA	NM	Y	1	21.2	14.7	1.9	CO	Y	L01
L-155	FL	NC	N	NA	0	NA	HG	Y	1,4	21.1	18.3	2.4	DS	Y	L0102
L-156	BL	CNP	N	NA	1	NA	SN	Y	4	23.4	16.1	2.5	MD	Y	L00
L-157	BL	TD	Y	FL	0	DF	SN	Y	1	20.7	16.3	1.7	PR	Y	L0102
L-158	BL	NC	N	NA	0	NA	HG,SN	Y	4	30.9	17.3	3.2	DS	Y	L0102
L-159	BL	NC	N	NA	0	NA	HG	Y	1,4	19.8	12.4	1.4	DS	Y	L00
L-160	FL	CNP	N	NA	5	NA	IN(RT)	N	NA	17.5	24.8	2.9	DS	N	L0102
L-161	BL	SD	Y	AN	1	FO	IN(RT)	Y	2,3,4	29.4	17.6	2.5	PR	Y	L00
L-162	BL	PD	Y	FL	5	PR	SN	N	NA	21.4	13.3	1.3	PR	Y	L00
L-163	FL	SD	Y	AN	5	PR	HG,SN	Y	4	51.3	50.1	36	PR	N	L0102
L-164	FL	TD	Y	FC	0	PR	IN(RT)	Y	1	46.1	53.7	33.6	CO	Y	L0102
L-165	BL	NC	N	NA	0	NA	AX	Y	1,4	38.8	11.7	9.8	DS	Y	L0102
L-166	FL	CNP	N	NA	1	NA	NM	Y	2,3	44	47.9	21.3	DS	Y	L02
L-167	FL	NC	N	NA	0	NA	HG,NM	Y	1,3	33.6	42	9	DS	N	L
L-168	FL	SD	Y	FL	2	PR	IN(RT)	Y	1,4	44.9	52.3	17.7	PR	N	L0
L-169	FL	CNP	N	NA	4	NA	NM	N	NA	51.2	99.6	108.9	DS	N	L0102
L-170	FL	SD	Y	AN	1	PR	NM	Y	1	34.8	51.7	21.7	CO	N	L0102

L-171	BL	NC	N	NA	0	NA	AX	Y	1,2,3,4	50.2	28	14.5	DS	Y	L00
L-172	FL	SD	Y	FL	1	PR	NM	Y	1	41	65.6	38.4	CO	Y	L0102
L-173	FL	SD	Y	AN	2	PR	NM	Y	2,3	37.6	47.1	27.2	CO	N	L
L-174	FL	SD	Y	AN	1	DF	AX	Y	1,2,3,4	38.5	43.1	17.9	PR	Y	L00
L-175	FL	CNP	N	NA	4	NA	HG	Y	1	47.7	23	18	CO	Y	L0102
L-176	FL	PD	Y	AN	5	DF	IN(RT)	N	NA	41.5	31.8	12.7	PR	Y	L00
L-177	FL	SD	Y	FL	1	FO	NM	Y	1,4	48.3	27.9	19.4	CO	Y	L0102
L-178	BL	TD	Y	AN	0	PR	SN	Y	2,4	41.8	24.8	7.8	PR	Y	L0102
L-179	FL	SD	Y	FL	1	PR	SN	Y	1,3	35.6	41.5	8.8	PR	Y	L01
L-180	FL	TD	Y	FL	0	DF	NM	Y	1,2	30	35.9	7.9	PR	Y	L0102
L-181	FL	SD	Y	FL	1	PR	NM	Y	1	41	62.7	26	CO	Y	L0102
L-182	FL	TD	Y	FL	0	DF	IN(RT)	Y	2	44.7	28.6	12.4	PR	Y	L0102
L-183	BL	SD	Y	FL	1	DF	SN	Y	1,2,4	36.3	30.8	9.8	PR	N	L0102
L-184	FL	TD	Y	FL	0	DF	SN	Y	1,4	33.1	19.5	3.7	PR	N	L00
L-185	BL	SD	Y	FL	1	DF	SN	Y	1	52.1	23.1	14.1	PR	Y	L00
L-186	BL	NC	N	NA	0	NA	SN	Y	1	35.3	30.3	11.7	DS	Y	L0102
L-187	FL	SD	Y	FL	1	DF	SN	Y	1,4	53.1	34.4	14.4	PR	N	L0102
L-188	FL	SD	Y	FL	2	PR	HG	Y	4	27.6	34.6	4.7	PR	Y	L0102
L-189	FL	SD	Y	FL	1	PR	NM	Y	1	46.3	48	28.4	CO	Y	L0102
L-190	FL	TD	Y	FL	0	DF	NM	Y	2,4	35	28.2	9.3	CO	Y	L01
L-191	FL	CNP	N	NA	1	NA	NM	Y	2,3	21.6	39	7.6	DS	Y	L0102
L-192	FL	NC	N	NA	0	NA	SN	Y	1,2	32	30.7	7.3	DS	N	L0102
L-193	FL	SD	Y	FC	1	PR	IN(RT)	Y	4	36.1	42.2	14.2	CO	N	L0102
L-194	FL	SD	Y	FL	1	DF	SN	Y	1,4	35.9	21.7	7.1	PR	Y	L0102
L-195	FL	CNP	N	NA	4	NA	NM	N	NA	39.6	32.5	9.3	CO	Y	L0102
L-196	FL	CNP	N	NA	3	NA	SN	Y	3	72.4	47.3	57	MD	N	L0102
L-197	BL	CNP	N	NA	1	NA	NM	Y	1	29.4	21.5	7.8	DS	Y	L0102
L-198	BL	NC	N	NA	0	NA	HG	Y	1,4	42.2	33	13.7	DS	Y	L0102
L-199	BL	TD	Y	FL	0	PR	SN	Y	1,4	24.9	20.4	3.4	PR	N	L0102
L-200	BL	SD	Y	AN	1	DF	SN	Y	1,4	37.3	27.3	7.7	PR	N	L00
L-201	BL	CNP	N	NA	5	NA	NM	N	NA	15.5	19.5	1.8	DS	N	L0102
L-202	BL	CNP	N	NA	5	NA	SN	N	NA	27.8	23.2	5.2	MD	N	L0102
L-203	FL	PD	Y	FL	5	PR	HG	N	NA	13.3	22.8	1.8	PR	N	L00
L-204	FL	SD	Y	AN	4	PR	SN	Y	4	22.2	18.8	3.2	PR	Y	L0102
L-205	FL	TD	Y	AN	0	PR	NM	Y	1	20.9	20.4	3	CO	Y	L0102
L-206	BL	TD	Y	AN	0	DF	SN	Y	4	26	27.2	5	PR	Y	L0102
L-207	BL	NC	N	NA	0	NA	SN	Y	1	26.5	19.6	3.5	MD	Y	L02
L-208	BL	SD	Y	AN	1	DF	SN	Y	1,2,4	23.7	20.1	2.8	PR	Y	L0102
L-209	BL	TD	Y	FL	0	PR	HG,SN	Y	4	28.3	19	3.1	PR	N	L00
L-210	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	46.7	21.1	8.1	PR	Y	L0102
211	BL	NC	N	NA	0	NA	SN	Y	1,4	19.9	18.7	2.1	MD	Y	L00
212	FL	NC	N	NA	0	NA	NM	Y	1,4	28.2	27.4	4.8	DS	Y	L0102
213	FL	TD	Y	AN	0	PR	SN	Y	1,4	24.6	25.1	4.8	MD	Y	L01
214	BL	TD	Y	FL	0	DF	SN	Y	4	34.9	19	6.1	PR	Y	L0102
215	FL	NC	N	NA	0	PR	SN	Y	4	29	19.3	1.4	PR	Y	L0102
216	FL	SD	Y	RD	1	PR	HG	Y	1	30.5	26.7	11.3	CO	Y	L0102
217	BL	TD	Y	FL	0	DF	SN	Y	1,4	19.2	16.8	2	DS	N	L0102
218	FL	SD	Y	RD	1	PR	SN	Y	1,2	27	22.2	3.1	PR	Y	L0102
219	BL	NC	N	NA	0	NA	NM	Y	2,4	12.5	15.4	1.1	DS	N	L0102
220	FL	SD	Y	AN	1	PR	NM	Y	1,4	38.7	23.9	10.8	CO	N	L00
221	FL	SH	N	NA	0	NA	NM	Y	IN	47	31.5	15.4	CO	Y	L0102
222	FL	SH	N	NA	0	NA	SN	N	NA	29	26.4	8.3	CO	Y	L00
223	FL	NC	N	NA	0	NA	SN	Y	1,4	16.3	26.3	1.8	MD	Y	L0102
224	FL	TD	Y	FL	0	PR	SN	Y	1,4	24.1	30	8	PR	Y	L00
225	FL	SD	Y	FL	1	PR	NM	Y	1	79.6	60.8	95.9	CO	Y	L00
226	FL	SD	Y	FL	4	PR	HG,NM	Y	2,4	75	70.1	102.9	CO	Y	L00
227	FL	SD	Y	FL	1	PR	HG,NM	Y	1	51.6	46.6	28.4	CO	Y	L00
228	BL	SD	Y	FL	4	PR	NM	Y	4	43.4	60.3	41.6	CO	Y	L00
229	FL	SD	Y	AN	1	PR	NM	Y	1,2,4	92.4	62.5	75.1	CO	Y	L0102
230	FL	SD	Y	AN	1	PR	NM	Y	1,4	42.1	72.8	40.9	CO	Y	L0102
231	FL	SD	Y	FL	3	PR	HG,NM	Y	1	44.3	55	17.3	CO	Y	L0102
232	FL	SD	Y	AN	4	DF	NM	Y	1,4	56.6	45.3	37.2	CO	Y	L0102
233	FL	SD	Y	FL	1	FO	NM	Y	1,2,4	96.3	64.1	153.5	CO	Y	L0102
234	FL	SD	Y	CR	4	PR	NM	Y	1	81.8	50.1	53	CO	Y	L0102
235	FL	SD	Y	FL	1	PR	NM	Y	2,4	45.3	40.2	14.6	CO	Y	L0102
236	FL	NC	N	NA	0	NA	IN(RT)	Y	1,3,4	45.8	31	9	CO	Y	L00
237	FL	SD	Y	AN	1	PR	NM	Y	1,2,3	57.7	39.3	20.5	CO	Y	L
238	FL	SD	Y	RD	3	FO	NM	Y	3	73.3	52.7	69.1	CO	Y	L00
239	FL	SD	Y	FL	5	FO	HG,NM	N	NA	93.3	81.2	220.7	CO	Y	L00
240	FL	SD	Y	AN	2	PR	NM	Y	1,2	58.1	58.6	26.8	CO	Y	L00
241	FL	SD	Y	IN(RT)	1	PR	IN(RT)	Y	1,2	45.4	42.7	31.4	CO	Y	L00
242	FL	NC	N	NA	0	NA	HG	Y	1,3	46.2	50.8	17	DS	N	L0102
243	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,2	89.5	62.7	106.9	CO	Y	L00
244	FL	PD	Y	AN	5	PR	NM	N	NA	56.1	37.9	50.7	CO	Y	L00
245	FL	CNP	N	NA	1	NA	HG	Y	1,3	53.9	69.4	69.1	DS	Y	L0102
246	FL	SD	Y	AN	1	PR	NM	Y	1,4	39.5	44.2	21.7	CO	N	L00
247	FL	SD	Y	AN	4	PR	NM	Y	2,3	42.7	63.7	37.4	CO	y	I0102
248	FL	PD	Y	AN	5	PR	NM	N	NA	34.9	60.3	26.1	CO	Y	L0102
249	FL	SD	Y	AN	1	PR	NM	y	1,2,3	41.6	58	34.4	co	Y	L0102
250	BL	TD	Y	FC	0	FO	AX	Y	2	38.2	20.9	6.8	CO	Y	L00
251	FL	PD	Y	AN	5	FO	NM	N	NA	57.8	31.5	27.6	CO	Y	L0102
252	FL	TD	Y	FL	0	FO	IN(RT)	Y	1,2,3	28.9	48.7	14.5	PR	N	L0102
253	FL	TD	Y	AN	0	PR	NM	Y	1,4	37.4	38.8	17.4	CO	Y	L0102
254	BL	SH	N	NA	3	NA	NM	Y	1	55.6	33.2	55.3	CO	Y	L00
255	BL	TD	Y	AN	0	FO	IN(RT)	Y	1,2,3	28.6	18.2	3.7	CO	Y	L0102

256	FL	SD	Y	AN	2	FO	IN(RT)	Y	1	50.3	48.9	51.7	CO	Y	L00
257	FL	PD	Y	AN	5	PR	NM	N	NA	40.7	64.2	37.4	CO	Y	L00
258	FL	SD	Y	FL	1	PR	NM	Y	3,4	28.2	28.6	4.1	CO	N	L01
259	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	53.8	49	55	DS	N	L00
260	FL	CNP	N	NA	5	NA	NM	N	NA	19.5	34.3	4.5	DS	Y	L0102
261	FL	CNP	N	NA	5	NA	NM	N	NA	24.3	25.7	4.5	DS	Y	L0102
262	FL	SD	Y	FL	1	PR	NM	Y	1,2,3,4	42.3	58.8	63.1	CO	Y	L0102
263	BL	SD	Y	FL	2	DF	NM	Y	2	30.5	20.6	6.4	CO	Y	L00
264	FL	TD	Y	FL	0	PR	NM	Y	1	17.5	14.6	0.9	CO	N	L0102
265	FL	SD	Y	AN	1	DF	NM	Y	1	43.8	34.7	21.5	CO	Y	L0102
266	BL	CNP	N	NA	1	NA	ST	Y	2,3,4	33.8	25.8	7.5	DS	Y	L00
267	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,3	24.7	19.9	3	PR	Y	L00
268	BL	NC	N	NA	0	NA	OP	Y	1	58.4	31.1	17.5	DS	Y	L00
269	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	39.1	32.2	9.4	PR	Y	L01
270	BL	TD	Y	FL	0	PR	SN	Y	1,4	46.8	33.2	16.8	PR	Y	L0102
271	FL	SD	Y	AN	3	DF	NM	Y	4	40.5	45.1	21.1	PR	Y	L0102
272	FL	CNP	N	NA	3	NA	NM	Y	1	62.2	25.7	17.1	DS	N	L0102
273	FL	SD	Y	AN	1	PR	HG	Y	2,3	60.7	25.8	16.2	CO	Y	L0102
274	BL	SD	Y	FL	2	DF	NM	Y	2,3	71.8	28.7	35.1	CO	Y	L0102
275	FL	TD	Y	RD	0	PR	IN(RT)	Y	1,2,3	42.2	25.4	11.6	CO	Y	L0102
276	BL	NC	N	NA	0	NA	HG	Y	1	55.9	21.2	7.9	DS	Y	L0102
277	BL	TD	Y	FL	0	PR	HG	Y	1,4	54.9	20.8	10.9	PR	Y	L0102
278	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,2,3	16.4	31.6	3.4	DS	N	L00
279	BL	SD	Y	FL	1	PR	IN(RT)	Y	1	53.9	23	12.7	PR	N	L00
280	FL	CNP	N	NA	2	NA	IN(RT)	Y	1,2,3	35.7	32.6	12.4	MD	Y	L0102
281	BL	NC	N	NA	0	NA	OP	Y	1	30.6	21.2	5.2	MD	Y	L01
282	FL	TD	Y	AN	0	PR	HG,NM	Y	1	27.8	33.9	4.3	CO	Y	L00
283	FL	SD	Y	AN	1	PR	AX	Y	1,3	36.6	28.1	6	PR	Y	L0102
284	FL	TD	Y	FL	0	PR	HG	Y	1,4	25.4	20.2	1.8	PR	N	L0102
285	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,2	20.2	26.9	2.3	PR	Y	L00
286	FL	TD	Y	AN	0	DF	OP	Y	3,4	25.6	24	3.6	CO	N(FN)	L0102
287	FL	TD	Y	FL	0	DF	IN(RT)	Y	1	31	25.3	6.1	CO	Y	L0102
288	FL	NC	N	NA	0	NA	SN	Y	1,2,3	25.3	34	4.3	DS	Y	L00
289	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,2,3	30.1	27.8	6	PR	N	L00
290	FL	TD	Y	FL	0	PR	OP	Y	1,3,4	33.2	28	8.3	CO	Y	L00
291	FL	NC	N	NA	0	NA	SN	Y	1	28.5	24.1	4.6	DS	N	L0102
292	BL	TD	Y	AN	0	DF	NM	Y	1,4	34.5	20.5	3.3	CO	N	L00
293	BL	TD	Y	AN	0	PR	NM	Y	1,3,4	30.8	23.6	7.6	DS	Y	L0102
294	FL	TD	Y	AN	0	PR	HG	Y	1,4	24.7	33	7.4	CO	Y	L01
295	FL	NC	N	NA	0	NA	NM	Y	1,4	39.4	28.3	9.6	DS	Y	L00
296	FL	TD	Y	FL	0	DF	NM,SN	Y	1	26	19.7	1.4	PR	Y	L00
297	FL	NC	N	NA	0	NA	SN	Y	1,4	24.7	24.5	3.8	MD	N	L0102
298	BL	NC	N	NA	0	NA	SN	Y	1,4	19.2	22.8	3.5	MD	Y	L01
299	BL	NC	N	NA	0	NA	SN	Y	1,4	26.1	13.8	2.1	MD	Y	L0102
300	BL	TD	Y	AN	0	PR	SN	Y	1,4	22.22	19.6	2.5	PR	Y	L0102
301	FL	NC	N	NA	0	NA	SN	Y	1,4	18.5	22.6	3	MD	Y	L0102
302	FL	SD	Y	RD	2	DF	SN	Y	3	38.2	27.2	10.1	PR	N	L0102
303	BL	CNP	N	NA	2	NA	IN(RT)	Y	3	30.4	15.6	2.4	DS	Y	L00
304	BL	CNP	N	NA	3	NA	SN	Y	1,4	33.9	13.6	3.5	MD	Y	L0102
305	BL	CNP	N	NA	2	NA	IN(RT)	Y	1,4	30.2	17.2	3.6	DS	Y	L01/L0102
306	BL	CNP	N	NA	2	NA	HG	Y	1	32.7	14.7	3	DS	Y	L0102
307	FL	CNP	N	NA	1	NA	OP	Y	1	31.9	21	4.5	DS	Y	L0102
308	BL	CNP	N	NA	3	NA	SN	Y	3	21.7	15.8	2.4	MD	Y	L0102
309	BL	CNP	N	NA	2	NA	NM	Y	1	32.1	15.5	3.7	DS	N	L0102
310	BL	CNP	N	NA	3	NA	NM	Y	IN	29.9	12.9	1.8	DS	Y	L0102
311	BL	SD	Y	AN	1	PR	SN	Y	4	23.8	12.8	1.6	PR	Y	L00
312	BL	CNP	N	NA	2	NA	SN	Y	1	34.9	15.6	3.5	DS	N	L0102
313	BL	CNP	N	NA	2	NA	SN	Y	3,4	19.1	18.8	2.5	MD	N	L0102N
314	BL	SD	Y	AN	3	DF	OP	Y	2,3	21.1	8.9	1.8	PR	Y	L0102
315	BL	CNP	N	NA	1	NA	SN	Y	1,4	21	11	2	MD	Y	L00
316	BL	CNP	N	NA	1	NA	NM	Y	1	17.6	8.5	0.9	DS	Y	L0102
317	FL	TD	Y	AN	0	PR	HG	Y	1	24.6	19.4	2.3	PR	N	L00
318	FL	TD	Y	RD	0	PR	AX	Y	1,4	15.4	29.8	3.1	CO	Y	L00
319	FL	SD	Y	FL	1	DF	HG,NM	Y	3,4	37.1	32.1	8.7	CO	N	L0102
320	FL	NC	N	NA	0	NA	IN(RT)	Y	3	26.6	29	5.9	DS	Y	L0102
321	FL	NC	N	NA	0	NA	NM	Y	3	23.6	29.6	4	DS	Y	L0102
322	FL	NC	N	NA	0	NA	IN(RT)	N	NA	17	24.3	2.6	DS	Y	L0102
323	FL	SD	Y	AN	1	PR	NM	Y	1,4	33.9	22.3	6.2	CO	Y	L00
324	FL	TD	Y	FL	0	PR	IN(RT)	Y	4	21.3	20.1	2.2	CO	N	L01
325	FL	TD	Y	CR	0	DF	HG	Y	1,4	28.1	20.5	3.1	CO	N	L0102
326	FL	TD	Y	CR	0	PR	NM	Y	1	26.4	21.3	2.8	CO	Y	L00
327	FL	TD	Y	FL	0	DF	NM	Y	4	20.3	17.8	2.1	CO	N	L0102
328	FL	TD	Y	AN	0	PR	HG	Y	1	16.5	30.6	2.5	PR	Y	L0102
329	BL	TD	Y	AN	0	PR	NM	Y	1	25	18.1	2.5	CO	Y	L00
330	FL	TD	Y	FL	0	PR	IN(RT)	Y	4	24.8	18	1.8	CO	Y	L0102
331	FL	SD	Y	IN(RT)	2	NA	NM	Y	1	87.5	70.9	116.8	CO	N	L00
332	BL	CNP	N	NA	1	NA	IN(RT)	Y	1	63.9	25.2	19.2	DS	Y	L0102
333	BL	TD	Y	AN	0	PR	AX	Y	1,4	65.8	25.3	17.1	CO	Y	L0102
334	BL	TD	Y	AN	0	PR	AX	Y	1	56.1	36.3	12.9	CO	N	L00
335	BL	SD	Y	FL	1	PR	AX	Y	2,3,4	38.6	19.8	6.1	CO	Y	L0102
336	BL	TD	Y	FL	0	PR	OP	Y	1,2,4	70.4	37.8	28	CO	Y	L0102
337	BL	NC	N	NA	0	NA	SN	Y	1,4	34.2	15.2	2.1	MD	Y	L0102
338	BL	TD	Y	AN	0	PR	SN	Y	1,2	29.6	12.8	1.8	PR	Y	L00
339	BL	SD	Y	CR	1	PR	HG	Y	1,4	38.6	17.8	4.6	PR	N	L00
340	FL	TD	Y	FL	0	PR	SN	Y	1,4	34.5	17.7	2,7	PR	N	L0102

341	BL	TD	Y	AN	0	DF	AX	Y	1,2	28.8	9.6	1.3	CO	Y	L00
342	BL	TD	Y	CR	0	PR	ST	Y	1,4	25	11.5	1.2	PR	N	L0102
343	BL	TD	Y	RD	0	DF	NM	Y	1	30.8	14.3	3.4	CO	N	L0102
344	BL	CNP	N	NA	1	NA	NM	Y	1,2	36.4	15.8	3.8	DS	Y	L00
345	BL	SD	Y	CR	4	PR	HG	Y	4	21.9	9.9	0.8	PR	N	L0102
346	BL	TD	Y	AN	0	PR	NM	Y	1,2,4	27.5	11.7	1.7	CO	Y	L0102
347	FL	PD	Y	AN	5	PR	NM,SN	N	NA	25.2	34.4	10.4	CO	Y	L0102
348	FL	CNP	N	NA	5	NA	HG	N	NA	27.9	21.2	4.3	DS	N	L
349	BL	NC	N	NA	0	NA	AX	Y	1,4	22.2	7.7	1	MD	N	L00
350	FL	SH	N	NA	5	NA	SN	N	NA	33.8	36.5	36.6	CO	N	L
351	FL	TD	Y	AN	0	PR	NM	Y	1,3	63.3	36.3	38.6	CO	N	L
352	FL	SH	N	NA	2	NA	IN	N	NA	52.7	28.8	44.2	CO	N	L0102
353	FL	SH	N	NA	1	NA	IN	IN	IN	61.2	30.6	53.3	CO	Y	L0102
354	BL	NC	N	NA	0	NA	AX	Y	1,4	36	26.4	19.2	DS	N	L0102
355	FL	SD	Y	AN	2	PR	NM	Y	1,2	48.6	60.6	42.7	CO	N	L0102
356	BL	CNP	N	NA	1	NA	NM	Y	2,3	54.1	21.5	20.5	DS	Y	L0102
357	FL	TD	Y	AN	0	PR	SN	Y	1	45.9	29	14.2	CO	N	L0102
358	BL	NC	N	NA	0	NA	HG	Y	3	36.7	25.4	8.4	MD	Y	L02
359	FL	SD	Y	FL	4	PR	HG	Y	4	30.4	28	6.6	PR	N	L0102
360	FL	SD	Y	RD	4	PR	NM	Y	1,2	35.9	42.4	16.6	CO	N	L0102
361	FL	SD	Y	AN	1	DF	NM	Y	1,2	35.1	27.5	12.9	CO	Y	L0102
362	FL	SD	Y	FL	1	PR	NM	Y	1	23.8	16	2.7	CO	Y	L0102
362a	BL	SD	Y	AN	1	PR	NM	Y	1	29.2	31.1	9.9	CO	Y	L0102
363	FL	SD	Y	AN	2	PR	NM,SN	Y	1	25.1	37.1	6.9	CO	Y	L0102
364	BL	SD	Y	CR	2	DF	HG	Y	1,3	25.9	18.8	3.2	CO	N	L00
365	FL	SD	Y	FL	1	PR	IN(RT)	Y	1,2,3	32.3	26.6	8.7	CO	Y	L0102
366	BL	CNP	N	NA	1	NA	SN	Y	3	28.3	21.9	4.5	MD	Y	L00
367	FL	CNP	N	NA	4	NA	IN(RT)	Y	1	31.8	19.9	3.2	DS	N	L00
368	BL	SD	Y	AN	3	PR	SN	Y	1,4	25.6	16.2	3.2	CO	Y	L0102
369	FL	TD	Y	RD	0	PR	SN	Y	1	18.7	25.9	2	CO	Y	L0102
370	FL	SD	Y	AN	1	PR	IN(RT)	Y	2	23.8	15	1.7	CO	Y	L0102
371	FL	SD	Y	AN	3	PR	NM	Y	1	14.7	25.3	1.7	CO	Y	L0102
372	FL	NC	N	NA	0	NA	IN(RT)	Y	2,3	19.1	33.8	5.6	DS	Y	L01
373	BL	SD	Y	FL	1	DF	SN	Y	1,4	28.8	23.5	7.5	PR	Y	L00
374	FL	SD	Y	CR	1	PR	IN(RT)	Y	1	20.1	19.7	1.7	CO	Y	L0102
375	FL	CNP	N	NA	1	NA	NM	Y	1,2	25.8	19.6	3.9	DS	Y	L0102
376	FL	NC	N	NA	0	NA	SN	Y	1,4	14.2	13.4	0.9	MD	N	L0102
377	BL	TD	Y	FL	0	PR	SN	Y	1,4	26	16.1	2.6	PR	Y	L00
378	BL	TD	Y	AN	0	PR	SN	Y	1	15.7	17.4	1.3	PR	Y	L0102
379	BL	NC	N	NA	0	PR	NM	Y	1,4	22.3	16.3	1.5	DS	Y	L00
380	BL	CNP	N	NA	3	NA	OP	Y	1,4	14.6	17.6	1.1	MD	N	L0102
381	BL	NC	N	NA	0	NA	AX	Y	1,4	22.2	14.2	1.7	DS	N	L0102
382	BL	SD	Y	FL	3	PR	NM	Y	1	23.4	12.9	1	CO	Y	L0102
383	BL	NC	N	NA	0	NA	AX	Y	1,4	16.7	10.1	0.9	MD	N	L0102
384	FL	TD	Y	AN	0	PR	NM	Y	1,2,4	18.5	12.5	2.2	PR	Y	L0102
385	FL	TD	Y	FL	0	PR	IN	Y	4	17.4	13.9	1.1	PR	Y	L0102
386	BL	NC	N	NA	0	NA	SN	Y	1,4	13.8	15.3	0.8	MD	Y	L0102
387	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,4	18.5	17.7	1.6	CO	Y	L0102
388	FL	TD	Y	AN	0	DF	HG	Y	1,3,4	76.7	34.3	21.2	CO	Y	L0102
389	BL	TD	Y	AN	0	PR	NM	Y	1,2,3,4	70.2	36.5	23.4	CO	Y	L0102
390	BL	TD	Y	CR	0	DF	AX	Y	1,4	56.9	20.3	8	CO	Y	L00
391	BL	TD	Y	AN	0	PR	AX	Y	1,3,4	74.1	21.7	13.5	CO	Y	L0102
392	BL	SD	Y	FC	1	DF	AX	Y	1,4	39.9	19.6	3.8	CO	Y	L00
393	BL	SD	Y	FL	1	PR	SN	Y	1,4	55.8	25.1	10.2	CO	Y	L00
394	BL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	49.6	27.3	14.2	CO	Y	L00
395	BL	NC	N	NA	0	NA	AX	Y	1,4	56	24.7	12.7	DS	Y	L00
396	BL	NC	N	NA	0	NA	AX	Y	1	46.8	14	5.5	DS	Y	L0102
397	BL	SD	Y	AN	3	PR	AX	Y	1	58.7	22.5	9.9	CO	Y	L01
398	BL	SD	Y	FL	1	DF	NM	Y	1	59.5	21.3	8.2	CO	Y	L00
399	BL	CNP	N	NA	1	NA	NM	Y	1,4	37.1	21.9	4.5	DS	Y	L0102
400	BL	SD	Y	CTX	1	PR	NM	Y	1,4	59.4	32.1	16.2	CO	N	L0102
401	BL	NC	N	NA	0	NA	AX	Y	IN	37.4	6.6	1.9	MD	N	L00
402	FL	NC	N	NA	0	NA	SN	Y	1	24.5	2	0.3	MD	N	L00
403	BL	NC	N	NA	0	NA	NM	Y	1	25.5	5.9	0.6	MD	Y	L00
404	BL	NC	N	NA	0	NA	IN	Y	1,4	30.1	7.9	1.1	MD	N	L01
405	BL	TD	Y	FL	0	PR	HG	Y	1	30.7	9	1.3	PR	Y	L01
406	BL	NC	N	NA	0	NA	NM	Y	1,4	23.4	6.9	1	MD	Y	L
407	FL	NC	N	NA	0	NA	IN(RT)	Y	1	23.9	17.4	1.5	DS	N	L0102
408	BL	CNP	N	NA	1	NA	AX	Y	1	20.3	5.5	0.7	DS	Y	L0102
409	BL	NC	N	NA	0	NA	IN	Y	1	14.3	6.1	0.4	DS	Y	L0102
410	BL	CNP	N	NA	2	NA	NM	Y	1	23	9.6	2.2	DS	Y	L01
411	BL	TD	Y	IN(RT)	0	DF	HG	Y	1,4	29.4	7.4	1.5	PR	N(FN)	L00
412	BL	CNP	N	NA	3	NA	SN	Y	1	20.4	9	1.5	MD	N	L0102
413	BL	NC	N	NA	0	NA	HG	Y	1,4	29	11.5	1.2	MD	N	L00
414	BL	TD	Y	AN	0	PR	NM	Y	4	21.9	8.3	0.7	CO	N	L0102
415	BL	NC	N	NA	0	NA	AX	Y	1,2,3	25.3	6.6	1.1	MD	N	L00
416	BL	CNP	N	NA	1	NA	HG	Y	1,4	21.8	7.2	1.5	MD	N	L00
417	BL	NC	N	NA	0	NA	AX	Y	1,2	22.7	9.7	1.1	DS	N	L0102
418	BL	NC	N	NA	0	NA	AX	Y	1,3	20.8	6.7	0.7	DS	N	L0102
419	BL	NC	N	NA	0	NA	AX	Y	1,4	10.2	5.2	0.2	DS	N	L00
420	BL	NC	N	NA	0	NA	NM	Y	1,4	16.2	3.7	0.3	DS	N	L
421	BL	TD	Y	AN	0	PR	AX	Y	1,2	18.1	8.2	1.1	PR	Y	L00
422	BL	NC	N	NA	0	NA	AX	Y	1,4	20.9	5.1	1.1	MD	N	L0102
423	BL	SH	N	NA	0	NA	AX	Y	1,3,4	41.7	12	3.4	CO	N	L00
424	FL	NC	N	NA	0	NA	SN	Y	1,2,3,4	26.6	13.8	2.1	DS	Y	L0102

425	FL	TD	Y	AN	0	DF	IN(RT)	Y	1,3	29.6	24.1	4.7	PR	Y	L0102
426	FL	NC	N	NA	0	NA	IN(RT)	Y	2	18.8	32.5	4.5	MD	N	L0102
427	BL	NC	N	NA	0	NA	AX	Y	1,4	34.5	27.8	6.7	DS	Y	L02
428	FL	CNP	N	NA	5	NA	AX	N	NA	34.4	27.5	13.7	CO	Y	L00
429	BL	CNP	N	NA	1	NA	SN	Y	1,4	17.3	17.2	1.2	DS	Y	L01
430	BL	NC	N	NA	0	NA	SN	Y	1,4	39	22.5	9.3	PR	N	L00
431	BL	TD	Y	AN	0	PR	SN	Y	1,4	18.2	16.3	1.5	PR	Y	L0102
432	BL	NC	N	NA	0	NA	AX	Y	1,4	12.8	17.2	0.9	DS	N	L00
433	FL	SD	Y	AN	1	DF	IN(RT)	Y	1,4	30.8	39.2	14.2	CO	Y	L0102
434	BL	NC	N	NA	0	NA	AX	Y	2,4	46.9	26.4	14.2	MD	Y	L0102
435	FL	TD	Y	FL	0	PR	SN	Y	1,3,4	52.5	27.8	16.8	PR	Y	L0102
436	FL	CNP	N	NA	3	NA	IN(RT)	Y	1,2,4	31.5	9.7	2	MD	Y	L00
437	FL	CNP	N	NA	1	NA	AX	Y	1,2,3	51.1	28.5	15.9	DS	Y	L0102
438	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	31.1	19.1	4.6	MD	Y	L0102
439	BL	NC	N	NA	0	NA	IN(RT)	Y	1	38.1	21	5.1	MD	Y	L0102
440	BL	NC	N	NA	0	NA	HG	Y	1,4	35.9	19.5	4.8	MD	N	L0102
441	BL	TD	Y	FL	0	PR	AX	Y	1,2,4	23	14.7	1.9	PR	Y	L00
442	BL	CNP	N	NA	1	NA	AX	Y	1	22.5	15.8	3.1	DS	Y	L0102
443	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	26.8	14.1	1.6	DS	N	L00
444	BL	TD	Y	AN	0	PR	SN	Y	4	26	16.8	3.3	PR	N	L0102
445	BL	NC	N	NA	0	NA	HG	Y	1,4	24.2	12.8	1.6	MD	Y	L00
446	BL	TD	Y	RD	0	PR	HG	Y	1,4	17.4	15.5	1.7	PR	Y	L00
447	FL	CNP	N	NA	1	NA	HG	Y	1,4	30.5	20.6	4.5	DS	Y	L0102
448	BL	SD	Y	AN	1	PR	SN	Y	1,4	25.9	22	4.7	PR	Y	L0102
449	BL	TD	Y	AN	0	PR	AX	Y	1	19.6	14.5	1	CO	Y	L0102
450	BL	CNP	N	NA	1	NA	AX	Y	1	22.4	15.7	2.8	DS	Y	L0102
451	BL	NC	N	NA	0	NA	HG	Y	1,4	15.1	19.2	2.2	MD	N	L00
452	FL	TD	Y	AN	0	DF	AX	Y	1,4	18.7	19.4	2	PR	Y	L00
453	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	21.3	13	1.5	DS	Y	L00
454	BL	NC	N	NA	0	NA	SN	Y	1,4	24.2	11.9	1.1	MD	N	L0102
455	BL	NC	N	NA	0	NA	SN	Y	1,4	17.9	14.5	1.2	MD	N	L0102
456	FL	NC	N	NA	0	NA	HG	Y	1,4	15.1	15	1	MD	Y	L00
457	FL	TD	Y	AN	0	DF	AX	Y	1,4	20	11.3	0.8	PR	N	L00
458	BL	NC	N	NA	0	NA	HG	Y	1,4	23.4	12.9	2.1	MD	Y	L00
459	FL	NC	N	NA	0	NA	NM,SN	Y	1	23.8	17.9	1.8	DS	Y	L0102
460	BL	NC	N	NA	0	NA	IN	Y	1	19.3	10.5	1	MD	Y	L0102
461	FL	NC	N	NA	0	NA	IN	Y	1,4	20	11.3	0.8	MD	Y	L01
462	FL	SD	Y	CTX	1	PR	IN(RT)	Y	2,3	13.6	17.6	1.1	PR	Y	L0102
463	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	17.4	9.4	0.7	MD	Y	L0102
464	BL	TD	Y	FL	0	PR	SN	Y	1,4	28.4	10.1	1.5	PR	N	L0102
465	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,2,4	26.9	18.5	2.7	PR	N	L0102
466	FL	TD	Y	FC	0	PR	SN	Y	1,4	19.5	24	2.6	PR	N	L0102
467	FL	CNP	N	NA	1	NA	HG	Y	2	30.4	41	11.9	DS	N	L00
468	BL	TD	Y	AN	0	DF	HG	Y	1,4	21.6	10.3	0.9	PR	Burin spal	L00
469	BL	NC	N	NA	0	NA	AX	Y	1,4	25.6	17.1	2.6	DS	Y	L0102
470	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	31	21.8	2.4	MD	N	L00
471	FL	TD	Y	AN	0	PR	SN	Y	1,4	23.5	20.3	3.1	PR	N	L01
472	FL	NC	N	NA	0	NA	AX	Y	1	16.7	19.3	1.6	DS	N	L0102
473	FL	SD	Y	AN	4	DF	HG	Y	1	14	25	2	CO	Y	L0102
474	FL	CNP	N	NA	1	NA	NM	Y	1	17.4	9.7	0.7	DS	N	L0102
475	BL	TD	Y	AN	0	DF	HG	Y	1	28.2	21.9	3.8	CO	Y	L0102
476	FL	NC	N	NA	0	NA	AX	Y	1	15.6	13.1	0.6	DS	Y	L00
477	FL	TD	Y	AN	0	DF	SN	Y	1,4	16.4	17	1.6	PR	N	L00
478	FL	TD	Y	FL	0	DF	IN(RT)	Y	1	15.1	24.3	1.5	PR	N	L01
479	FL	NC	N	NA	0	NA	HG,SN	Y	1,4	26.7	19.3	2.4	DS	Y	L0102
480	BL	CNP	N	NA	4	NA	OP	Y	2	19.2	15.4	1.7	DS	N	L0102
481	FL	NC	N	NA	0	NA	IN(RT)	Y	1	24.9	29.7	3.5	DS	Y	L0102
482	FL	TD	Y	FL	0	DF	SN	Y	4	20.1	18	2.1	PR	Y	L0102
483	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	21.1	26	3.5	PR	Y	L0102
484	BL	TD	Y	FL	0	DF	NM	Y	1	23.5	12.2	1.2	CO	Y	L0102
485	BL	TD	Y	AN	0	PR	SN	Y	1,4	14.1	13.8	0.7	PR	Y	L00
486	FL	TD	Y	AN	0	DF	NM	Y	1,2,3	15.9	23.4	2.7	CO	Y	L0102
487	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	23.7	21.9	3.9	DS	Y	L0102
488	FL	TD	Y	AN	0	DF	HG,SN	Y	1,4	18.9	21.7	1.4	PR	Y	L00
489	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	16.1	13	0.9	CO	Y	L0102
490	BL	NC	N	NA	0	NA	AX	Y	1	19.5	13.1	1.3	DS	Y	L0102
491	FL	TD	Y	FL	0	PR	SN	Y	1,4	17.5	19.9	1.5	PR	Y	LOO
492	FL	NC	N	NA	0	NA	SN	Y	1,4	12.7	16.5	0.9	MD	N	L0102
493	BL	NC	N	NA	0	NA	AX	Y	1,4	13.9	12.4	0.8	DS	Y	L00
494	BL	NC	N	NA	0	NA	HG	Y	1,4	10.8	17.7	1	DS	Y	L00
495	BL	CNP	N	NA	1	NA	HG	Y	1	23.1	21.6	3.4	DS	Y	L00
496	BL	NC	N	NA	0	NA	AX	Y	1,4	18.8	16	1.2	DS	Y	L0102
497	FL	SD	Y	CTX	1	PR	IN(RT)	Y	1	20.9	25.1	1.8	PR	Y	L00
498	BL	TD	Y	AN	0	PR	SN	Y	1,4	16.5	11.5	1	PR	Y	L0102
499	FL	TD	Y	AN	0	PR	HG,SN	Y	2,4	19.8	18.1	1.6	CO	N	L0102
500	BL	NC	N	NA	0	NA	SN	Y	1	20.6	20.4	2.2	MD	Y	L0102
501	BL	NC	N	NA	0	NA	SN	Y	1,4	8.9	15.2	1.1	MD	Y	L0102
502	BL	CNP	N	NA	1	NA	AX	Y	1,4	32.2	18	5.6	DS	N	L0102
503	BL	SD	Y	FL	1	PR	SN	Y	1,4	19.8	17.9	2.5	PR	N	L02
504	BL	NC	N	NA	0	NA	SN	Y	1,4	9.8	12.4	0.6	MD	Y	L00
505	FL	TD	Y	AN	0	DF	NM	Y	2,4	11.6	19.1	1	CO	Y	L0102
506	FL	TD	Y	FL	0	PR	SN	Y	1	16.7	17.3	1	PR	N	L00
507	BL	CNP	N	NA	1	NA	SN	Y	1,4	10.7	12.8	0.6	MD	N	L0102
508	FL	TD	Y	FL	0	PR	NM	Y	2,3	17.6	26	2.2	PR	N	L0102
509	FL	NC	N	NA	0	NA	IN(RT)	Y	3,4	16	21.2	1.7	MD	Y	L00

510	FL	SD	Y	CTX	1	PR	SN	Y	4	14.2	22.8	2.1	PR	N(FN)	L0102
511	BL	TD	Y	AN	0	PR	AX	Y	4	18	10.7	0.8	CO	Y	L01
512	BL	TD	Y	AN	0	PR	AX	Y	1	19.8	11.6	0.7	CO	Y	L00
513	BL	CNP	N	NA	1	NA	NM	Y	1,4	25.8	14.3	1.7	DS	Y	L0102
514	BL	TD	Y	AN	0	PR	HG	Y	1,4	13.9	12.4	0.7	CO	N	L0102
515	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	18.9	18	0.7	DS	Y	L00
516	FL	CNP	N	NA	1	NA	NM	Y	1	15.2	12.6	0.7	DS	Y	L0102
517	BL	CNP	N	NA	1	NA	HG	Y	1	13.5	14.1	0.8	DS	Y	L02
518	FL	NC	N	NA	0	PR	SN	Y	1,4	22.2	12.8	1.3	PR	N	L0102
519	FL	CNP	N	NA	1	NA	SN	Y	1	27.2	38	6.2	MD	N	L00
520	BL	SD	Y	AN	1	PR	SN	Y	1,4	12.4	18.2	1.5	PR	N	L0102
521	FL	NC	N	NA	0	NA	AX	Y	1	11.3	13.1	0.5	DS	Y	L00
522	FL	SD	Y	AN	1	PR	NM	Y	1,2	22	12.5	1.9	CO	Y	L0102
523	FL	TD	Y	AN	0	DF	IN(RT)	Y	1	27.1	31.2	6.5	PR	Y	L0102
524	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,4	26.8	23	5.3	PR	Y	L02
525	FL	TD	Y	AN	0	PR	SN	Y	1	24.6	21.3	2.7	PR	N	L00
526	FL	SD	Y	FL	1	DF	SN	Y	1,4	22.5	21.9	3.3	PR	Y	L01
527	BL	CNP	N	NA	5	NA	NM	Y	4	21.4	14.3	1.7	DS	Y	L0102
528	FL	TD	Y	AN	0	PR	SN	Y	1,4	19.8	16.4	1.8	PR	N	L01
529	FL	TD	Y	AN	0	PR	SN	Y	1,4	19.5	15.1	1.4	PR	N (FN)	L02
530	FL	TD	Y	AN	0	PR	SN	Y	1	14.1	29.4	2.4	PR	N	L0102
531	FL	TD	Y	FL	0	PR	SN	Y	1,3	22.4	23.5	3.4	PR	N	L0102
532	BL	NC	N	NA	0	NA	NM	Y	2,3	30.2	10.8	1.5	DS	N	L00
533	BL	TD	Y	FL	0	DF	SN	Y	1,4	20.7	13.7	1.1	PR	N	L0102
534	BL	NC	N	NA	0	NA	SN	Y	1,4	13.3	12.7	0.5	MD	N(FN)	L0102
535	BL	NC	N	NA	0	NA	SN	Y	1,4	24.2	12.6	2	MD	Y	L0102
536	FL	NC	N	NA	0	NA	SN	Y	1,2,4	14.7	21.2	1.6	MD	N	L0102
537	FL	TD	Y	AN	0	PR	HG	Y	1,4	14.6	17.3	1.2	PR	N	L0102
538	FL	NC	N	NA	0	NA	HG	Y	1,2	15.5	18.3	1.3	MD	N	L0102
539	BL	NC	N	NA	0	NA	NM	Y	1,2,4	22.1	11.4	0.9	DS	Y	L02
540	BL	SD	Y	RD	1	PR	SN	Y	1,4	12.1	13.9	1	PR	N(FN)	L0102
541	BL	NC	N	NA	0	NA	HG	Y	1	18.8	18	2	DS	N	L0102
542	BL	CNP	N	NA	2	NA	AX	Y	1,4	9.8	12.3	0.5	MD	N	L01
543	FL	TD	Y	AN	0	PR	SN	Y	1	13.6	21.3	1.2	PR	Y	L0102
544	FL	NC	N	NA	0	NA	AX	Y	1,2	19.2	18.6	2.2	DS	N	L0102
545	FL	CNP	N	NA	2	NA	SN	Y	4	16.6	13.9	1	MD	N	L00
546	FL	TD	Y	FL	0	PR	SN	Y	3	16.3	11.4	1.3	PR	N	L00
547	FL	NC	N	NA	0	NA	NM	Y	1,2	9.4	26.7	1.7	MD	Y	L00
548	FL	SD	Y	AN	1	PR	NM	Y	1,4	13.5	24.1	2.8	CO	N	L0102
549	FL	NC	N	NA	0	NA	IN(RT)	Y	IN	20	14.2	1.1	MD	N	L01
550	FL	SD	Y	AN	1	PR	HG,SN	Y	1	14.6	19.2	0.8	PR	Y	L00
551	FL	TD	Y	AN	0	PR	SN	Y	1	18.6	20	1.7	PR	N	L0102
552	FL	NC	N	NA	0	NA	IN(RT)	Y	1,3,4	19.2	21.4	4	MD	N	L0102
553	FL	NC	N	NA	0	NA	NM	Y	1,2,3,4	10.4	27.9	2.1	DS	N	L0102
554	FL	TD	Y	RD	0	PR	NM	Y	1	12.4	20.4	1	CO	N	L0102
555	BL	NC	N	NA	0	NA	NM	Y	1,4	16.6	18.1	1.2	DS	Y	L00
556	FL	TD	Y	AN	0	PR	NM	Y	3	13.9	20.5	1.9	CO	N	L02
557	FL	NC	N	NA	0	NA	NM	Y	1	17	25	2.7	MD	Y	L00
558	BL	SD	Y	FL	2	PR	NM	Y	1,4	24.3	17.7	2.9	CO	Y	L0102
559	FL	CNP	N	NA	1	NA	IN(RT)	Y	1	21	20.4	2.6	DS	Y	L0102
560	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,2,3	18.2	26.3	3.2	PR	N	L0102
561	FL	TD	Y	AN	0	DF	SN	Y	1,4	20.2	13.9	1.5	PR	N	L0102
562	FL	CNP	N	NA	1	NA	AX,NM	Y	1,2,3,4	16.8	20.5	4.7	DS	N	L0102
563	FL	SD	Y	CTX	1	PR	SN	Y	1,4	13	18.7	0.8	PR	N	L00
564	BL	TD	Y	AN	0	PR	SN	Y	1,4	18.6	16.3	2.1	PR	N	L0102
565	BL	TD	Y	AN	0	PR	SN	Y	1,2	12.5	18.7	1.3	PR	N	L0102
565b	FL	NC	N	NA	0	NA	HG	Y	1,4	17.1	11.8	0.9	DS	Y	L00
566	BL	NC	N	NA	0	NA	AX	Y	1	15.2	15.8	1.3	DS	N	L0102
567	FL	SD	Y	AN	1	DF	IN(RT)	Y	1,4	23.9	31.1	4.2	CO	N	L0102
568	BL	TD	Y	FL	0	DF	SN	Y	1,2,4	18.1	18.5	1.6	PR	N	L0102
569	BL	NC	N	NA	0	NA	NM	Y	1,3,4	17.4	13.2	0.6	DS	N	L0102
570	BL	NC	N	NA	0	NA	HG	Y	1,4	18.5	18	1.4	DS	N	L00
571	BL	CNP	N	NA	1	NA	NM	Y	3,4	17.8	34.8	3.8	DS	N	L00
572	BL	NC	N	NA	0	NA	AX	Y	1,4	16.8	10	0.8	DS	N	L0102
573	FL	TD	Y	AN	0	PR	SN	Y	1,4	20.9	11.5	1.1	PR	Y	L0102
574	BL	TD	Y	AN	0	PR	SN	Y	1,4	17.1	12.4	0.9	PR	Y	L0102
575	BL	NC	N	FO	0	FO	SN	Y	1,4	14.5	10.6	0.6	PR	Y	L0102
576	FL	CNP	N	NA	1	NA	SN	Y	2	15.8	23.3	2.2	MD	N	L0102
577	FL	SD	Y	FL	1	DF	SN	Y	1	17.8	17.7	2	PR	N	L01
578	BL	NC	N	NA	0	NA	AX	Y	1,4	17.4	11.1	0.8	DS	N	L00
579	FL	CNP	N	NA	1	NA	OP	Y	1,4	28.7	16.6	3.2	DS	Y	L00
580	BL	NC	N	NA	0	NA	SN	Y	1,4	16.5	10.8	0.6	MD	Y	L0102
581	FL	TD	Y	AN	0	PR	IN(RT)	Y	2	21.4	12.3	1.2	PR	Y	L0102
582	BL	TD	Y	AN	0	PR	IN(RT)	Y	1	13.7	13.2	0.8	PR	Y	L0102
583	BL	SD	Y	AN	1	PR	IN(RT)	Y	1,4	20.8	15.2	1.4	PR	N	L01
584	BL	SD	Y	AN	1	PR	IN(RT)	Y	1	17.4	13.6	1	PR	Y	L00
585	FL	CNP	N	NA	1	NA	SN	Y	4	15	20.5	1.1	MD	Y	L00
586	BL	CNP	N	NA	1	NA	AX	Y	1,4	15.5	15.4	1	DS	Y	L02
587	FL	CNP	N	NA	4	NA	IN(RT)	Y	1	18.5	15.8	1.2	MD	Y	L0102
588	BL	TD	Y	FL	0	PR	SN	Y	1	12.4	21.1	1.6	PR	Y	L0102
589	BL	PD	Y	AN	5	PR	SN	N	NA	21.2	20.6	3.8	PR	Y	L0102
590	FL	NC	N	NA	0	NA	HG	Y	1,4	13.3	22.4	1	MD	Y	L0102
591	FL	NC	N	NA	0	NA	IN(RT)	Y	1	10.4	17	0.7	DS	Y	L0102
592	FL	TD	Y	AN	0	PR	IN(RT)	Y	1	27.8	19.2	2.1	PR	Y	L00
593	BL	NC	N	NA	0	NA	AX	Y	1,4	14.3	17.7	1.5	MD	Y	L0102

594	BL	CNP	N	NA	4	NA	IN(RT)	Y	1,4	10.4	16.6	0.8	MD	N	L01
595	FL	TD	Y	AN	0	DF	IN(RT)	Y	2,3	17.9	30.1	1.9	PR	Y	L00
596	BL	TD	Y	AN	0	DF	HG		1,4	19.6	16.5	1.7	PR	N	L00
597	BL	SD	Y	CR	1	DF	SN	Y	1,4	14.9	10	0.8	PR	N(FN)	L0102
598	BL	NC	N	NA	0	NA	NM	Y	1,4	17.5	13.6	0.8	DS	Y	L00
599	FL	TD	Y	FL	0	DF	SN	Y	1	14	18.9	1	PR	N	L0102
600	FL	NC	N	NA	0	NA	HG	Y	1,4	20.7	12.9	1.2	DS	N	L00
601	FL	SD	Y	AN	3	DF	HG	Y	1	15.7	21.1	1.4	CO	Y	L00
602	FL	CNP	N	NA	5	NA	NM	N	NA	32.1	11.1	3.2	CO	N	L0102
603	BL	NC	N	NA	0	NA	SN	Y	1,4	9.1	10.6	0.2	DS	N	L00
604	BL	NC	N	NA	0	NA	SN	Y	1,4	7.7	21.4	1.4	MD	N	L0102
605	BL	NC	N	NA	0	NA	HG	Y	1,4	12.6	11.2	0.8	MD	N	L00
606	FL	TD	Y	CR	0	DF	HG	Y	1,4	14	20.7	0.8	PR	N	L0102
607	FL	NC	N	NA	0	NA	NM	Y	1,3,4	25.9	15.7	1.7	DS	N	L00
608	BL	SD	Y	FL	1	DF	SN	Y	1,4	14.6	12.2	0.6	PR	N	L0102
609	FL	CNP	N	NA	1	NA	SN	Y	1,4	24.5	18.4	2.3	MD	N	L01
610	FL	NC	N	NA	0	NA	AX	Y	1	16.1	12.3	0.9	DS	Y	L0102
611	FL	NC	N	NA	0	NA	SN	Y	4	16.9	19.2	0.9	MD	Y	L00
612	BL	NC	N	NA	0	NA	IN(RT)	Y	1,2	22.6	14.6	2.6	MD	Y	L01
613	FL	CNP	N	NA	1	NA	AX	Y	1	19.1	19.8	2.2	DS	Y	L0102
614	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	16.2	19.1	1.5	DS	Y	L00
615	BL	TD	Y	AN	0	DF	SN	Y	4	18	12.3	1.5	PR	N	L00
616	FL	SD	Y	AN	1	PR	HG	Y	1,4	19.1	17.4	1.1	PR	Y	L02
617	BL	NC	N	NA	0	NA	SN	Y	1,4	18.7	14.9	1.8	MD	N	L00
618	FL	SD	Y	FL	1	PR	HG	Y	1	15.7	24.9	1.5	PR	N	L01
619	FL	SD	Y	CTX	1	PR	SN	Y	1,4	19	18.6	1.3	PR	N	L00
620	FL	CNP	N	NA	1	NA	HG,NM	Y	1,2,3,4	10.5	26.2	1.5	DS	Y	L0102
621	FL	NC	N	NA	0	NA	NM	Y	1	16.4	12.2	0.8	DS	Y	L0102
622	FL	TD	Y	FL	0	PR	SN	Y	1,4	13.8	18.1	1.3	PR	Y	L0102
623	BL	TD	Y	FL	0	DF	AX	Y	1,4	20.2	10	1	CO	N	L0102
624	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	12.6	11.2	0.4	MD	Y	L0102
625	BL	NC	N	NA	0	NA	SN	Y	1,4	8	14.9	0.4	MD	Y	L0102
626	FL	NC	N	NA	0	NA	SN	Y	1	10.9	18.6	0.7	MD	Y	L0102
627	BL	TD	Y	FL	0	PR	SN	Y	1,4	15.6	12.7	0.6	PR	Y	L00
628	BL	TD	Y	AN	0	PR	SN	Y	1	18.3	18.9	1.4	PR	Y	L0102
629	FL	TD	Y	AN	0	PR	NM	Y	1	13.8	20.8	1.3	PR	Y	L0102
630	BL	NC	N	NA	0	NA	SN	Y	1,4	15	12.9	0.7	MD	Y	L0101
631	FL	NC	N	NA	0	NA	AX	Y	1,4	19.3	14.3	1.9	DS	N	L00
632	BL	NC	N	NA	0	NA	SN	Y	1,4	12.5	16.6	0.6	MD	Y	L0102
633	BL	NC	N	NA	0	NA	SN	Y	1,4	12.9	11.1	0.5	DS	N	L0102
634	BL	SD	Y	FL	1	DF	NM	Y	2	23.5	17.1	3	PR	N	L00
635	FL	TD	Y	FL	0	PR	SN	Y	1,4	11	154.5	0.6	PR	N	L01
636	BL	NC	N	NA	0	NA	HG	Y	1,4	19.1	15	2.3	MD	N	L0102
637	FL	NC	N	NA	0	NA	SN	Y	1	17.8	27.1	1.7	MD	Y	L00
L-638	FL	NC	N	NA	0	NA	SN	Y	2,3	12.5	23.6	1	MD	Y	L0102
L-639	FL	NC	N	FO	0	FO	SN	Y	1,4	20.4	30.8	2.7	PR	Y	L00
640	BL	NC	N	NA	0	NA	SN	Y	1,4	22.1	7.4	0.7	MD	N	L00
641	BL	TD	Y	FL	0	DF	AX	Y	1,4	23.9	11.1	0.9	CO	N	L0102
642	BL	NC	N	NA	0	NA	HG	Y	1,4	23.7	5.4	0.4	DS	N	L00
643	BL	NC	N	NA	0	NA	AX	Y	1,3	17.4	8.8	0.7	DS	N	L0102
644	BL	SD	Y	FL	4	DF	SN	Y	1,4	22.6	9	0.6	PR	Y	L0102
645	BL	NC	N	NA	0	NA	AX	Y	1	16.1	9.2	0.5	DS	N	L0102
646	BL	NC	N	NA	0	NA	HG	Y	1,4	19	9.7	0.8	MD	N	L00
647	BL	NC	N	NA	0	NA	AX	Y	1,4	14.7	8.9	0.7	DS	Y	L01
648	BL	TD	Y	FL	0	PR	HG	Y	1,4	14.9	9.2	0.6	PR	N	L00
649	BL	CNP	N	NA	1	NA	AX,NM	Y	1,4	25.6	8.4	0.9	DS	N	L0102
650	BL	PD	Y	FL	5	PR	NM	N	NA	22.3	9.6	0.4	CO	Y	L0102
651	BL	CNP	N	NA	1	NA	AX	Y	1,4	18.9	8.8	1	MD	Y	L00
652	BL	TD	Y	AN	0	PR	HG	Y	1,4	18	9.9	0.9	PR	Y	L00
653	BL	NC	N	NA	0	NA	SN	Y	1,4	15.7	7.1	0.3	MD	N	L00
654	BL	NC	N	NA	0	NA	AX	Y	1,4	12.7	10.4	0.5	DS	Y	L0102
655	BL	TD	Y	FL	0	PR	NM	Y	1,4	13.5	6.5	0.2	PR	N	L00
656	BL	SD	Y	FL	3	PR	SN	Y	1,4	18.4	7.6	0.4	PR	Y	L0102
657	BL	CNP	N	NA	1	NA	SN	Y	1,4	14.3	7.8	0.3	MD	N	L0102
658	BL	NC	N	NA	0	NA	AX	Y	1,2,4	18.8	9.7	1.2	DS	Y	L00
659	BL	TD	Y	FL	0	PR	SN	Y	1,4	20.2	7.7	0.7	PR	Y	L0102
660	BL	NC	N	NA	0	NA	AX	Y	1	14.8	14.2	1	DS	Y	L00
661	BL	SD	Y	AN	1	DF	SN	Y	1,4	61.6	37.4	27.3	PR	Y	L0102
662	BL	NC	N	NA	0	NA	SN	Y	1,4	27.4	13.4	1.9	MD	Y	L0102
663	BL	NC	N	NA	0	NA	HG	Y	1	20.1	13.8	1	MD	N	L02
664	BL	TD	Y	AN	0	DF	SN	Y	4	18.9	12.3	0.9	PR	N	L0102
665	FL	CNP	N	NA	1	NA	NM	Y	1,4	18.4	21	2.2	DS	N(FN)	L0102
666	FL	CNP	N	NA	1	NA	NM	Y	1,2	19.8	17.5	2.1	DS	Y	L0102
667	FL	CNP	N	NA	1	NA	SN	Y	1	15.5	12.2	0.6	MD	N	L0102
668	BL	NC	N	NA	0	NA	HG,SN	Y	1,4	15.9	20	0.7	MD	N(FN)	L0102
669	FL	NC	N	NA	0	NA	SN	Y	1,4	19.6	17.2	2.3	MD	N	L0102
670	BL	CNP	N	NA	1	NA	AX	Y	4	18.1	9	0.7	DS	N	L00
671	BL	CNP	N	NA	1	NA	AX	Y	1,4	17.8	6.6	0.4	DS	N	L00
672	BL	NC	N	NA	0	NA	AX	Y	1,4	24.8	8.4	1.4	DS	N	L0102
673	BL	CNP	N	NA	5	NA	NM	Y	1,4	18.3	8.8	0.7	DS	N	L0102
674	BL	TD	Y	FL	0	DF	SN	Y	3,4	17.4	7.5	0.7	PR	Y	L0102
675	BL	SD	Y	AN	4	PR	SN	Y	1	20.7	9	0.7	PR	Y	L0102
676	BL	CNP	N	NA	2	NA	NM	Y	1	17.9	6.5	0.4	DS	N	L00
677	BL	CNP	N	NA	1	NA	SN	Y	2	17.4	8.2	0.6	DS	Y	L00
678	BL	TD	Y	FL	0	DF	SN	Y	1,4	19.9	8.4	0.8	PR	Y	L00

679	BL	CNP	N	NA	2	NA	SN	Y	4	14.9	9.4	0.6	MD	Y	L0102
680	BL	SD	Y	FL	1	DF	SN	Y	1,3,4	20.8	6.8	0.5	PR	Y	L01
681	BL	CNP	N	NA	2	NA	AX	Y	1,4	12.8	7	0.2	DS	N(FN)	L0102
682	BL	CNP	N	NA	2	NA	AX	Y	1	15.1	8.2	0.5	DS	N	L0102
683	BL	TD	Y	AN	0	PR	NM	Y	1	19.6	7.2	0.5	PR	Y	L00
684	BL	CNP	N	NA	5	NA	AX	Y	1	20.1	8.9	0.6	DS	Y	L02
685	BL	NC	N	NA	0	NA	AX	Y	1,4	12.4	8.1	0.3	DS	Y	L00
686	BL	CNP	N	NA	1	NA	SN	Y	1	15.9	9.3	0.6	MD	N(FN)	L00
687	BL	NC	N	NA	0	NA	SN	Y	1,4	11.2	10	0.3	MD	Y	L00
688	BL	TD	Y	FL	0	PR	NM	Y	4	13.1	6.8	0.2	CO	Y	L00
689	BL	TD	Y	AN	0	DF	SN	Y	1,4	16.5	8.8	0.3	PR	Y	L00
690	BL	NC	N	NA	0	NA	HG,SN	Y	1	10.9	8.4	0.3	DS	N(FN)	L0102
691	BL	CNP	N	NA	1	NA	NM	Y	1	12.8	7.1	0.3	DS	N	L0102
692	BL	SD	Y	AN	1	PR	SN	Y	1,2,4	15.9	8.8	0.7	PR	N	L00
693	BL	SD	Y	AN	4	DF	HG,SN	Y	1,4	24.5	6.5	0.6	CO	Y	L0102
694	BL	NC	N	NA	0	NA	AX	Y	1,4	15.1	6.5	0.4	MD	N(FN)	L00
695	BL	NC	N	NA	0	NA	SN	Y	1	19.8	8.1	0.5	DS	N(FN)	L00
696	BL	NC	N	NA	0	NA	SN	Y	1,4	14.1	5.5	0.2	MD	N	L0102
697	BL	CNP	N	NA	5	NA	SN	N	NA	15.5	8	0.3	PR	Y	L00
698	FL	CNP	N	NA	5	NA	SN	Y	1,4	19.7	4.9	0.5	MD	N	L0102
699	BL	NC	N	NA	0	NA	AX	Y	1,4	16.3	9.7	0.4	DS	N	L0102
700	BL	NC	N	NA	0	NA	AX	Y	1,4	11.3	6.9	0.3	MD	N	L
701	BL	NC	N	NA	0	NA	AX	Y	1	11.5	7.1	0.3	MD	N	L00
702	BL	NC	N	NA	0	NA	NM	Y	1,3,4	6.2	15.6	0.3	DS	N	L00
703	BL	NC	N	NA	0	FO	HG,SN	Y	1,4	17.5	7.5	0.6	PR	Y	L00
704	BL	NC	N	NA	0	NA	NM	Y	1,4	13.3	8.9	0.4	DS	N	L0102
705	BL	SD	Y	FL	2	PR	IN(RT)	Y	1	17.7	30.1	8.3	PR	N	L0102
706	FL	CNP	N	NA	2	NA	AX	Y	1	20.6	12.2	1.4	DS	N	L00
707	FL	CNP	N	NA	4	NA	HG,SN	Y	1	15.7	17.9	2	MD	Y	L0102
708	FL	CNP	N	FO	5	NA	NM	N	NA	26.2	37.3	10.3	CO	Y	L00
709	FL	CNP	N	NA	1	NA	NM	Y	1,4	40.4	28.5	11.2	DS	Y	L0102
710	FL	CNP	N	NA	3	NA	NM	Y	2	40.7	32.3	14.7	DS	Y	L0102
711	FL	SD	Y	FL	1	PR	IN(RT)	Y	1,2	38.7	34.1	11.1	PR	N	L0102
712	FL	SD	Y	CTX	1	PR	NM	Y	2	39.7	25.2	6.3	CO	N	L0102
713	BL	CNP	N	NA	4	NA	HG,SN	Y	2	18.3	19.7	2.5	MD	Y	L01
714	BL	SD	Y	AN	1	DF	SN	Y	1	21.8	15.3	1.7	PR	Y	L0102
715	FL	TD	Y	AN	0	DF	SN	Y	1,4	6	20.7	0.4	PR	Y	L00
716	BL	NC	N	NA	0	NA	AX	Y	1,2	23	13.5	2.1	DS	N	L0102
717	FL	CNP	N	NA	5	NA	SN	N	NA	21.3	21.4	3.1	MD	Y	L0102
718	BL	CNP	N	NA	5	NA	SN	N	NA	15.1	23.8	5.1	CO	N	L02
719	FL	NC	N	NA	0	NA	SN	Y	1	26.6	23.4	5.5	MD	Y	L0102
720	FL	CNP	N	NA	4	NA	SN	Y	2	9.7	40.7	3.8	MD	Y	L0102
721	FL	TD	Y	FL	0	PR	SN	Y	1,4	17.8	29.2	3.7	PR	Y	L00
722	BL	CNP	N	NA	4	NA	SN	Y	4	14.2	9.5	0.6	MD	Y	L00
723	FL	SD	Y	CTX	1	PR	HG,SN	Y	IN	11.7	27.6	2	PR	N	L0102
724	FL	NC	N	NA	0	NA	AX	Y	1,3	21.1	21.2	3.5	DS	Y	L0102
725	FL	CNP	N	NA	1	NA	AX	Y	1	19	16.1	2.8	CO	Y	L0102
726	BL	NC	N	NA	0	NA	NM	Y	1	17.8	12.9	1.2	DS	N	L00
727	FL	PD	Y	AN	5	PR	IN(RT)	N	NA	17.4	20	2.7	CO	N	L00
728	FL	CNP	N	NA	1	NA	AX	Y	1	11.8	15.3	0.9	DS	Y	L00
729	FL	CNP	N	NA	1	NA	HG,SN	Y	1,2	20.3	17	1.2	DS	N	L00
730	BL	CNP	N	NA	3	NA	SN	Y	1,4	8.7	14.3	0.6	MD	Y	L0102
731	BL	CNP	N	FO	1	PR	SN	Y	2	29.4	25	15.6	PR	Y	L01
732	FL	CNP	N	NA	1	NA	NM	Y	1,4	19	39.4	3.3	DS	Y	L
733	BL	SD	Y	AN	1	PR	IN(RT)	Y	1	19.8	22	3	PR	Y	L0102
734	FL	CNP	N	NA	5	NA	NM	Y	IN	38.4	33.8	21.7	DS	Y	L00
735	FL	CNP	N	NA	1	NA	IN(RT)	Y	3	40.6	28.1	13.5	DS	Y	L00
736	FL	CNP	N	NA	2	NA	IN(RT)	N	NA	22.3	42	7.6	MD	Y	L0102
737	FL	CNP	N	NA	4	NA	AX	Y	1	41.2	22.3	12.5	DS	N	L0102
738	FL	CNP	N	NA	4	NA	NM	Y	1	18	27.8	2.7	DS	Y	L00
739	FL	SD	Y	FL	3	DF	ST	Y	2	28.3	12.4	2.1	PR	N	L0102
740	FL	CNP	N	NA	2	NA	IN(RT)	Y	1	21.8	28.5	4.7	MD	Y	L0102
741	FL	SD	Y	AN	4	DF	NM	Y	4	28.1	26.3	6.6	CO	Y	L0102
742	FL	CNP	N	NA	1	NA	HG,SN	Y	1,3	23.1	27	3.5	MD	Y	L0102
743	FL	SD	Y	CR	1	DF	HG,SN	Y	2	20.8	21.4	2	PR	N	L0102
744	FL	TD	Y	FL	0	DF	IN(RT)	Y	1,3	27.2	21.1	4	CO	N	L0102
745	FL	CNP	N	NA	1	NA	IN(RT)	Y	3	16.5	14.8	1.3	DS	N	L0102
746	FL	CNP	N	NA	4	NA	NM	Y	1	24.2	23.9	3.7	DS	N	L0102
747	BL	NC	N	NA	0	NA	NM	Y	2,3,4	29.9	11.4	3.3	DS	N	L0102
748	BL	SD	Y	CTX	1	PR	ST	Y	2,4	17.8	15.4	1.5	PR	N	L0102
749	FL	CNP	N	NA	5	NA	NM	N	NA	16.6	21.3	2.1	DS	Y	L00
750	FL	CNP	N	NA	4	NA	HG,SN	Y	2,4	10.6	19.7	1.5	MD	Y	L0102
751	FL	CNP	N	NA	1	NA	NM	Y	1,2,4	50.7	46.3	43.5	MD	N	L0102
752	FL	SD	Y	FL	1	PR	HG,SN	Y	2	23.8	23.1	4.5	DS	N	L0102
753	FL	CNP	N	NA	2	NA	AX	Y	1	19.5	25	5.1	DS	Y	L00
754	FL	CNP	N	NA	5	NA	AX	N	NA	32.7	18.6	11.7	CO	Y	L02
755	FL	CNP	N	NA	1	NA	OP	Y	1,2	30.4	23.4	5.6	MD	N	L0102
756	FL	CNP	N	NA	4	NA	IN(RT)	N	NA	28.3	15.9	2.5	MD	Y	L0102
757	BL	CNP	N	NA	1	NA	OP	Y	2,4	28.4	27.9	6.5	DS	Y	L0102
758	BL	SD	Y	CTX	1	DF	SN	Y	1,4	18.3	15.7	1.6	DS	N	L00
759	BL	CNP	N	NA	1	NA	NM	Y	1,4	34.8	14	2.3	DS	N	L00
760	BL	NC	N	NA	0	NA	ST	Y	1,4	24	24.4	2.9	MD	N	L00
761	FL	CNP	N	NA	4	NA	NM	Y	1	21.5	21.3	3.3	DS	N	L0102
762	FL	CNP	N	NA	5	NA	AX,NM	N	NA	23.1	15	3.7	DS	Y	L0102
763	FL	CNP	N	NA	1	NA	HG,SN	Y	4	24.6	25	2.9	MD	Y	L0102

764	FL	CNP	N	NA	2	NA	HG,SN	Y	3	17.6	25.1	2.9	MD	N	L0102
765	FL	CNP	N	NA	2	NA	IN(RT)	Y	2	23.4	28.6	4.7	CO	Y	L0102
766	FL	CNP	N	NA	5	NA	HG,SN	N	NA	25.3	27.9	6.7	CO	Y	L0102
767	FL	CNP	N	NA	2	NA	NM	Y	1	14.8	30.9	3.7	DS	Y	L0102
768	FL	CNP	N	NA	3	NA	OP	Y	3	20	25.6	4.1	DS	N	L02
769	FL	CNP	N	NA	2	NA	IN(RT)	Y	1,2	20.3	22.7	2.6	PR	Y	L0102
770	FL	SD	Y	FL	1	PR	NM	Y	1	15.8	14.9	1.5	PR	Y	L01
771	BL	CNP	N	NA	2	DF	NM	Y	2	16.9	9.6	0.7	DS	Y	L00
772	FL	CNP	N	NA	2	NA	IN(RT)	Y	4	32.5	18.7	4.9	DS	Y	L00
773	BL	SD	Y	AN	3	PR	SN	Y	3	27	11.8	3.3	PR	N	L00
774	BL	NC	N	NA	0	NA	HG,SN	Y	1,4	20.5	19.7	2.5	MD	Y	L0102
775	FL	SD	Y	CTX	1	DF	SN	Y	1	18.2	21.8	2	PR	Y	L0102
776	FL	CNP	N	NA	5	NA	SN	N	NA	13	20.1	1	MD	Y	L0102
777	FL	NC	N	NA	0	NA	AX	Y	4	18.7	25.2	3.6	DS	N	L00
778	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,3	24.4	27.2	4.4	MD	Y	L0102
779	FL	CNP	N	NA	5	NA	NM	N	NA	11.2	18.8	1.2	DS	Y	L00
780	FL	SD	Y	AN	1	PR	IN(RT)	Y	1	17.5	23	1.7	PR	Y	L0102
781	FL	SD	Y	AN	1	DF	HG,SN	Y	2,4	26.8	25.6	6	PR	Y	L00
782	BL	SD	Y	FL	1	FO	SN	Y	1,3	26.1	13.7	1.8	PR	Y	L00
783	FL	SD	Y	FL	2	PR	SN	Y	1	18	25	1.6	PR	Y	L00
784	FL	SD	Y	FL	1	PR	IN(RT)	Y	4	18.7	19	1.4	PR	Y	L0102
785	BL	NC	N	NA	0	NA	AX	Y	2,3	29.2	13	2.2	DS	Y	L0102
786	BL	SD	Y	CTX	1	DF	SN	Y	1,4	23.4	13.7	1.4	PR	Y	L0102
787	BL	CNP	N	NA	2	NA	NM	Y	1,4	26.4	6.8	1.3	DS	Y	L00
788	FL	CNP	N	NA	4	NA	HG,NM	Y	1	14.5	23.5	1.5	DS	N	L0102
789	BL	CNP	N	NA	4	NA	NM	N	NA	27.6	12.3	1.6	DS	Y	L00
790	FL	CNP	N	NA	4	NA	NM	N	NA	25.8	14.1	2.5	DS	N	L0102
791	BL	CNP	N	NA	1	NA	SN	Y	1,4	16.9	8.3	0.6	MD	Y	L0102
792	FL	SH	N	NA	0	NA	AX	Y	IN	25.3	15.2	2.6	MD	Y	L0102
793	FL	SD	Y	AN	1	PR	SN	Y	1,4	21.9	19.8	1.6	PR	Y	L0102
794	FL	CNP	N	NA	2	NA	NM	Y	1	18.3	21.3	1.2	DS	Y	L0102
795	FL	SD	Y	AN	1	PR	HG	N	NA	18.2	17.3	1.2	PR	N	L02
796	FL	CNP	N	NA	1	NA	AX	Y	1,4	18.2	19.1	1	DS	N	L0102
797	FL	CNP	N	NA	1	NA	SN	Y	1,4	16.2	23.2	1.5	MD	Y	L0102
798	FL	SD	Y	AN	1	PR	HG	Y	1	21.3	16.2	2	PR	Y	L00
799	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	18.2	21.6	2.7	MD	Y	L0102
800	FL	CNP	N	NA	1	NA	SN	Y	1	18.2	25	3.4	MD	N	L00
801	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	32	11.9	2.4	MD	N	L00
802	FL	SD	Y	FL	4	PR	SN	Y	1	17.4	22.7	2.1	PR	N	L02
803	FL	CNP	N	NA	2	NA	SN	Y	3	22.6	17.6	4.2	MD	N	L0102
804	BL	CNP	N	NA	5	NA	SN	N	NA	26.8	11.8	2.5	MD	N	L00
805	FL	CNP	N	NA	3	NA	AX	Y	1	23.8	18.5	5	DS	Y	L0102
806	FL	CNP	N	NA	5	NA	NM	N	NA	21.2	18.1	4.4	DS	Y	L0102
807	BL	CNP	N	NA	1	NA	AX	Y	1,2	30.3	12.6	3.6	DS	Y	L02
808	FL	NC	N	NA	0	NA	OP	Y	3	27.8	28.4	5.7	DS	Y	L0102
809	FL	CNP	N	NA	1	NA	AX	Y	1	20.5	18.5	2.3	DS	Y	L00
810	BL	CNP	N	NA	1	NA	AX	Y	1	23.4	13.9	1.5	DS	Y	L0102
811	FL	CNP	N	NA	2	NA	SN	Y	2	14.1	20.9	1.8	MD	N	L0102
812	FL	SD	Y	AN	1	PR	SN	Y	1,2,3	17.5	30.7	3.7	PR	N	L0102
813	FL	CNP	N	NA	5	NA	AX	N	NA	18.4	14.8	2.2	DS	N	L01
814	FL	CNP	N	NA	4	NA	AX	N	NA	17.9	25.5	3.6	DS	N	L00
815	FL	CNP	N	NA	5	NA	NM	N	NA	28.8	20.3	2.6	DS	Y	L02
816	FL	CNP	N	NA	1	NA	SN	Y	3	21.4	17.7	4.6	MD	N	L0102
817	FL	NC	N	NA	0	NA	IN(RT)	Y	3,4	29.4	26.1	3.9	MD	N	L0102
818	FL	CNP	N	NA	2	NA	AX	Y	1	13.3	20.8	2.6	DS	N	L0102
819	FL	SD	Y	CR	2	DF	NM	Y	4	14.1	20	1.8	PR	Y	L0102
820	FL	CNP	N	NA	1	NA	NM	Y	4	20.7	26.1	4.3	DS	N	L02
821	FL	NC	N	NA	0	NA	HG	Y	1,4	13.8	30.1	1.7	DS	Y	L0102
822	FL	NC	N	NA	0	NA	AX	Y	IN	33.2	16.1	3	CO	N	L0102
823	FL	TD	Y	FL	0	PR	HG	Y	1,4	14.6	19.1	1.2	PR	N	L00
824	FL	SD	Y	FL	1	DF	SN	Y	1	16.1	18.9	1.3	PR	N	L0102
825	FL	TD	Y	FL	0	DF	HG	Y	3	11	15.9	0.6	PR	Y	L0102
826	FL	SD	Y	FL	1	DF	AX	Y	1	27.1	13.8	3.6	CO	Y	L0102
827	FL	CNP	N	NA	1	NA	NM	Y	1,4	22.7	13.1	1.2	DS	Y	L0102
828	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,3	15.2	19.8	1.5	MD	Y	L0102
829	BL	NC	N	NA	0	NA	IN(RT)	Y	1	14.3	14.1	0.7	DS	Y	L0102
830	BL	CNP	N	NA	1	NA	AX	Y	1,3	14.3	11.1	0.9	DS	Y	L0102
831	FL	CNP	N	NA	1	NA	SN	Y	1	7.5	19.1	0.7	MD	Y	L00
832	FL	CNP	N	NA	2	NA	NM	Y	1	11.9	18.2	0.9	DS	Y	L0102
833	BL	NC	N	NA	0	NA	NM	Y	1	9.2	9.1	0.2	DS	Y	L00
834	FL	CNP	N	NA	3	NA	NM	Y	1	25.9	9.3	1.3	DS	N	L0102
835	BL	SD	Y	FL	1	PR	IN(RT)	Y	1,4	24.2	9.7	2	CO	+	L0102
836	FL	NC	N	NA	0	NA	HG,NM	Y	2,3	15.6	14.5	1	DS	Y	L0102
837	FL	NC	N	NA	0	NA	AX	Y	1,4	17.5	9.5	0.8	DS	Y	L0102
838	BL	TD	Y	AN	0	DF	NM	Y	1,2,3,4	32.6	12.8	2.2	CO	Y	L0102
839	FL	CNP	N	NA	1	NA	AX	Y	1,4	17.4	12.2	0.7	DS	Y	L0102
840	FL	SD	Y	IN(RT)	1	DF	SN	Y	2	18.7	12.4	0.6	PR	Y	L0102
841	FL	CNP	N	NA	2	NA	IN(RT)	Y	4	19.2	18.9	2.4	DS	Y	L0102
842	BL	CNP	N	NA	2	NA	NM	Y	1,4	26.1	19.3	4.4	DS	Y	L0102
843	FL	CNP	N	NA	5	NA	NM	N	NA	23	21.7	3.1	DS	Y	L0102
844	FL	CNP	N	NA	1	NA	SN	Y	2	21.5	28.2	4	DS	Y	L0102
845	FL	NC	N	NA	0	NA	AX	Y	1,2,4	23.2	16.6	3.7	DS	Y	L0102
846	FL	CNP	N	NA	2	NA	NM	Y	1	9.9	15.3	0.5	DS	Y	L02
847	FL	SD	Y	AN	1	DF	HG	Y	2	17.2	11.8	0.9	PR	Y	L0102
848	BL	NC	N	NA	0	NA	NM	Y	2	9.9	26.1	1.3	DS	N	L0102

849	BL	CNP	N	NA	2	NA	NM	Y	2	20.6	10.7	0.9	DS	Y	L02
850A	FL	CNP	N	NA	3	NA	NM	Y	1,3	22.9	15	1.8	DS	Y	L0102
850B	FL	NC	N	NA	0	NA	NM	Y	1,2,3,4	28.7	9.7	1.8	DS	Y	L0102
851	FL	SD	Y	AN	1	DF	NM	Y	1,3,4	19	31.5	2.4	PR	Y	L0102
852	FL	NC	N	NA	0	NA	HG	Y	1,4	24.9	20	3.1	MD	Y	L0102
853	FL	CNP	N	NA	1	NA	OP	Y	1,3,4	39.2	15.1	6.4	DS	Y	L0102
854	FL	CNP	N	NA	2	NA	IN(RT)	Y	1,4	21.6	16.1	1.5	DS	Y	L0102
855	FL	NC	N	NA	0	NA	IN(RT)	Y	1,3	11.3	18.5	0.7	MD	Y	L0102
856	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,2	11	19.5	1.3	DS	N	L0102
857	FL	CNP	N	NA	1	NA	OP	Y	1,3	19.9	21.9	2.2	DS	Y	L00
858	FL	CNP	N	NA	2	NA	AX	Y	1,4	25.6	10.7	2.6	DS	Y	L00
859	FL	NC	N	NA	0	NA	AX	Y	1,2,3	20.6	15.6	3.1	MD	Y	L00
860	FL	PD	Y	AN	5	PR	SN	N	NA	11.2	24.8	1.7	PR	Y	L01
861	FL	TD	Y	FL	0	PR	IN(RT)	Y	2,3	10.2	15.5	0.6	CO	Y	L00
862	FL	SD	Y	FL	3	PR	NM	Y	1	21.2	26.5	4.5	CO	N	L01
863	BL	NC	N	NA	0	NA	SN	Y	1,4	13.3	11.5	0.6	MD	N	L0102
864	BL	CNP	N	NA	4	NA	AX	Y	4	25.1	9.9	1.1	DS	Y	L0102
865	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	14.4	14.2	0.7	DS	Y	L0102
866	BL	SD	Y	AN	1	FO	SN	Y	3,4	23.9	14.6	3.4	PR	N	L0102
867	BL	CNP	N	NA	3	NA	AX	Y	4	11	8.6	0.6	DS	Y	L0102
868	BL	NC	N	NA	0	NA	NM	Y	1	15.5	5.6	0.3	DS	Y	L0102
869	BL	TD	Y	FL	0	DF	SN	Y	1,3	13.3	9.4	0.4	PR	Y	L00
870	BL	NC	N	NA	0	NA	SN	Y	1,4	12.5	9.1	0.5	MD	Y	L00
871	BL	CNP	N	NA	1	DF	NM	Y	1,4	9.8	7	0.1	DS	Y	L00
872	BL	TD	Y	RD	0	PR	SN	Y	1,4	12.4	7.4	0.2	PR	N	L0102
873	BL	NC	N	NA	0	NA	AX	Y	1,4	7.9	9.8	0.2	DS	N(FN)	L00
874	BL	NC	N	NA	0	NA	AX	Y	1	9.2	5.9	0.2	DS	Y	L00
875	BL	NC	N	NA	0	NA	SN	Y	1,4	9.1	5.6	0.1	MD	Y	L00
876	BL	CNP	N	NA	1	NA	AX	Y	1	10	7.3	0.3	DS	Y	L00
877	BL	SD	Y	AN	1	DF	HG	Y	4	13.8	5.9	0.3	PR	N	L0102
878	BL	NC	N	NA	0	NA	AX	Y	1	11	6.2	D.1	DS	N	L00
879	BL	TD	Y	FL	0	PR	HG	Y	1,4	14.4	6.6	0.2	PR	Y	L00
880	BL	CNP	N	NA	1	NA	HG	Y	1,4	7.5	9.9	0.2	MD	N	L00
881	BL	SD	Y	FL	1	DF	SN	Y	4	14.8	5.1	0.2	PR	Y	L00
882	BL	NC	N	NA	0	NA	SN	Y	1,4	9.2	7.1	0.1	MD	N	L00
883	BL	NC	N	NA	0	NA	AX	Y	1,4	9.4	6.7	0.2	DS	N	L00
884	BL	CNP	N	NA	1	NA	SN	Y	1,4	9.4	3.8	0.1	MD	Y	L00
885	BL	NC	N	NA	0	NA	SN	Y	1,4	7	8.9	0.1	MD	N(FN)	L0102
886	BL	NC	N	NA	0	NA	SN	Y	1,4	7.2	9.2	0.3	MD	N	L00
887	BL	NC	N	NA	0	NA	AX	Y	1,4	15.6	6.6	0.4	DS	Y	L00
888	BL	NC	N	NA	0	NA	AX	Y	1	7.7	6.3	0.1	DS	Y	L0102
889	BL	NC	N	NA	0	NA	AX	Y	1,4	15.4	6.8	0.3	DS	N(FN)	L0102
890	FL	NC	N	NA	0	NA	HG	Y	1,4	22.4	16.9	1	DS	N	L00
891	FL	TD	Y	AN	0	PR	NM	Y	1,2	8.3	15.8	0.6	PR	N	L0102
892	FL	SH	N	NA	0	NA	IN	IN	IN			1.5	CO	N	L00
893	BL	SD	Y	AN	1	DF	HG	Y	1	11.1	7.6	0.1	CO	N	L00
894	BL	NC	N	NA	0	NA	HG,AX	Y	1	10.2	5	0.1	DS	N	L00
895	BL	CNP	N	NA	1	NA	AX	Y	1,4	18.6	3.7	0.3	DS	Y	L0102
896	BL	CNP	N	NA	1	NA	NM	Y	1	15.8	4.4	0.3	DS	N	L0102
897	BL	NC	N	NA	0	NA	IN(RT)	Y	1	17.1	26	2.6	DS	N	L0102
898	BL	SD	Y	AN	1	DF	SN	Y	1	21.9	12.6	1.4	PR	Y	L
899	BL	TD	Y	CR	0	DF	SN	Y	1	13.7	17.4	0.7	PR	Y	L0102
900	FL	CNP	N	NA	4	NA	NM	Y	1,4	50.7	96.9	109	DS		L
901	BL	NC	N	NA	0	NA	IN(RT)	Y	1,2	21.1	15.9	1.4	MD	Y	L0201
902	COR											61.8		Y	L00
903	BL	SD	Y	AN	4	PR	NM	Y	1	61.9	41.6	30.9	CO	N	L0102
904	FL	SD	Y	CR	1	DF	ST	Y	1	31.1	26.7	4.7	PR	Y	L0102
905	BL	TD	Y	FL	0	DF	AX	Y	1,4	25.5	11	2.4	CO	Y	L0102
906	FL	SD	Y	FL	1	DF	AX	Y	1,3,4	31.2	27	5.6	PR	Y	L0102
907	FL	SD	Y	AN	1	FO	SN	Y	1	18.3	23.1	4.9	PR	Y	L0102
908	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,3	19	21.7	2.5	PR	Y	L0102
909	FL	NC	N	NA	0	DF	NM	Y	IN	26	24.4	5.4	DS	N(FN)	L00
910	FL	NC	N	NA	0	NA	IN(RT)	Y	2,3	27.6	14.2	1.7	DS	Y	L0102
911	FL	CNP	N	NA	4	NA	AX	Y	1	22.5	19.1	4.3	DS	N(FN)	L0102
912	FL	TD	Y	AN	0	DF	SN	Y	1	21.7	14.8	1.6	PR	N	L0102
913	FL	NC	N	NA	0	NA	ST	Y	1,3	19.5	17.2	1.6	MD	N	L0102
914	FL	TD	Y	FC	0	PR	HG,SN	Y	3	19.9	18.8	1.8	PR	N	L00
915	FL	CNP	N	NA	5	NA	AX	N	IN	13.3	19.9	1.6	DS	N	L02
916	FL	TD	Y	FL	0	DF	AX	Y	1	29.8	13.5	2.9	CO	Y	L0102
917	FL	NC	N	NA	0	NA	AX	Y	1	13.4	27.2	3.7	DS	Y	L0102
918	FL	TD	Y	AN	0	DF	SN	Y	IN	19.1	24	1.8	PR	Y	L0102
919	FL	TD	Y	RD	0	PR	HG	Y	1	15.9	26.9	2.5	PR	Y	L0102
920	FL	NC	N	NA	0	NA	ST	Y	IN	22	10.8	1.3	MD	N	L0102
921	FL	TD	Y	AN	0	DF	IN(RT)	Y	1	28.8	13.4	1.3	PR	N(FN)	L00
922	FL	NC	N	NA	0	NA	SN	Y	1	15.4	17.8	1.9	MD	N	L00
923	FL	TD	Y	FL	0	DF	ST	Y	1	22.6	17.6	1.7	CO	Y	L00
924	FL	CNP	N	NA	1	NA	AX	Y	3	17.5	18.8	1.7	DS	N	L0102
925	BL	NC	N	NA	0	NA	AX	Y	1,4	15.4	12.8	0.8	DS	N	L0102
926	FL	SH	N	NA	0	NA	IN	IN	IN			1.3	CO	Y	L0102
927	FL	SH	N	NA	1	NA	IN	N	IN			0.9	CO	Y	L0102
928	FL	NC	N	NA	0	NA	IN(RT)	Y	1	15.3	21.5	0.9	MD	Y	L00
929	FL	NC	N	NA	0	NA	ST	Y	1,4	21.7	22.8	3.2	MD	Y	L0102
930	FL	NC	N	NA	0	NA	SN	Y	1	14.9	12.6	0.6	MD	Y	L0102
931	FL	NC	N	NA	0	NA	AX	Y	1,4	9.7	16.9	1.1	DS	N	L0102
932	BL	TD	Y	RD	0	FO	SN	Y	1,4	24.4	12.3	1.3	PR	N	L00

933	FL	SH	N	NA	5	NA	IN	N	IN			2.3	CO	Y	L0102
934	BL	SD	Y	AN	1	PR	SN	Y	1	16.9	15.9	1.4	PR	N	L00
935	FL	NC	N	NA	0	NA	IN(RT)	Y	1	15.1	16.2	0.8	DS	Y	L00
936	FL	NC	N	NA	0	NA	IN(RT)	Y	IN	15.5	13.2	1.4	DS	Y	L00
937	BL	NC	N	NA	0	NA	SN	Y	1,4	30.3	21.1	2.7	MD	Y	L00
938	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	61.4	24.4	9.8	PR	Y	L0102
939	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	67.8	32	17.4	MD	N	L0102
940	FL	CNP	N	NA	3	NA	IN(RT)	Y	1,4	39.4	31	12.7	MD	N	L0102
941	BL	CNP	N	NA	1	NA	AX	Y	1,4	24.2	14.8	1.8	MD	N	L0102
942	FL	NC	N	NA	0	NA	AX	Y	1	15.6	8.4	0.6	DS	N	L0102
943	FL	CNP	N	NA	5	NA	NM	N	NA	14.1	18.4	0.9	DS	N(FN)	L0102
944	FL	NC	N	NA	0	NA	AX	Y	1	19.4	20.1	1.8	DS	Y	L0102
945	BL	CNP	N	NA	2	NA	ST	Y	1,4	21.3	13.9	1.2	MD	Y	L0102
946	FL	TD	Y	AN	0	FO	NM	Y	1,4	13.9	20.9	1.2	PR	Y	L0102
947	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	29.5	23.7	3.4	DS	N	L0102
948	FL	NC	N	NA	0	NA	NM	Y	4	20.3	13.9	1.1	DS	N	L00
949	FL	CNP	N	NA	1	NA	AX	Y	1	27.1	14.9	2.2	DS	N	L0102
950	FL	CNP	N	NA	1	NA	AX	Y	1,4	24	11.3	1.3	DS	N	L00
951	FL	CNP	N	NA	1	NA	SN	Y	1	13.6	16.2	0.4	MD	N	L0102
952	FL	NC	N	NA	0	NA	ST	Y	1	13.4	18.4	1.1	MD	N	L0102
953	FL	CNP	N	NA	5	NA	SN	N	NA	6	18.6	0.5	MD	N	L01
954	FL	NC	N	NA	0	NA	SN	Y	3	20	9.3	0.6	MD	N	L0102
955	BL	CNP	N	NA	1	NA	AX	Y	1	16.9	6.4	0.4	DS	N	L00
956	BL	NC	N	NA	0	NA	HG	Y	1,4	17	2.2	0.2	MD	N	L0102
957	BL	NC	N	NA	0	NA	AX	Y	1	9.1	5.3	0.1	DS	N	L01
958	BL	CNP	N	NA	1	NA	AX	Y	2	16.3	4.7	0.2	DS	N	L00
959	BL	NC	N	NA	0	NA	HG	Y	1	14.6	5.7	0.3	MD	N	L00
960	BL	CNP	N	NA	1	NA	AX	Y	1,2	11.1	5	0.2	DS	N	L0102
961	BL	CNP	N	NA	1	NA	SN	Y	1,4	14.8	4.2	0.1	MD	N	L00
962	BL	NC	N	NA	0	NA	HG	Y	1,4	19.4	4.7	0.4	MD	N	L00
963	BL	NC	N	NA	0	NA	SN	Y	1,4	9.5	7.3	0.2	MD	N	L00
964	BL	NC	N	NA	0	NA	SN	Y	1,4	10.9	4.5	0.1	MD	N	L00
965	BL	NC	N	NA	0	NA	SN	Y	1,4	8.6	5	0.1	MD		
966	BL	NC	N	NA	0	NA	AX	Y	1,3	12.6	5.5	0.1	DS		

LEVEL L RETOUCH DATABASE

Spec #		Proximal	Type(s	Len	Distal	Type(s)	Len	Left	Types	Len	Right	Type(s)	Len
6	FL	Y	NM	PT	Y	ABR	DSC	Y	ABR	DSC	N		
7	FL	N			Y	NM	DSC	Y	NM,RS	DSC	Y	ABR	DSC
8	FL	N			Y	ABR	DSC	N			Y	RS	DSC
9	BL	Y	ABR	PT	Y	ABR	DSC	N			Y	RS	DSC
10	BL	Y	RS	PT	Y	ABR	CT	Y	ABR,RS	DSC	Y	ABR	PT
11	FL	N			N			Y	ABR	PT	Y	ABR	DSC
12	BL	Y	ABR	DSC	Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC
13	FL	N			N			Y	RS	PT	Y	ABR,NM	CT
14	FL	Y	ABR	DSC	Y	ABR	PT	Y	NM	PT	Y	ABR	DSC
15	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC
17	FL	N			Y	RS	DSC	Y	RS	DSC	Y	ABR	PT
18	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	PT
19	FL	N			Y	ABR	DSC	N			Y	RS	CT
20	FL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	PT
21	FL	Y	NM	DSC	Y	ABR	PT	Y	ABR	PT	Y	ABR,RS	DSC
22	FL	N			N			Y	ABR,RS	DSC	N		
23	FL	Y	NM	CT	Y	ABR	PT	Y	RS	DSC	Y	ABR,RS	DSC
24	FL	N			Y	ABR	CT	Y	ABR	CT	N	BS	
25	BL	N			N			Y	NM	PT	N		
27	FL	Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC
28	FL	Y	ABR	PT	Y	ABR	PT	Y	ABR	PT	Y	RS	PT
29	FL	N			N			N			Y	RS	PT
32	BL	Y	ABR	DSC	Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC
34	FL	Y	ABR	DSC	Y	ABR	CT	Y	ABR	DSC	Y	ABR	CT
35	FL	Y	ABR	PT	Y	RS	PT	Y	ABR	PT	N		
36	FL	Y	NM	PT	N			N			Y	ABR	PT
39	BL	Y	NM	PT	N			N			Y	ABR,RS	DSC
L-43	BL	N			N			Y	RS	DSC	N		
L-44	BL	N			N			Y	NM,RS	CT	Y	RS	DSC
L-45	BL	N			Y	ABR	DSC	N			Y	ABR	PT
46	FL	N			N			Y	ABR	DSC	N		
47	BL	N			N			N			Y	ABR	PT
48	BL	N			N			Y	RS	DSC	Y	ABR	PT
L-49	BL	N			N			N			Y	ABR	DSC
50	BL	Y	NM	PT	N			Y	RS	PT	Y	ABR	DSC
52	BL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	DSC
L-53	BL	N			N			Y	ABR	DSC	Y	RS	PT
L-54	BL	N			N			Y	NM	DSC	Y	RS	DSC
L-55	FL	Y	NM	PT	Y	NM	DSC	Y	NM	CT	N		
L-56	BL	N			N			Y	NM	PT	Y	RS	PT
L-57	FL	N			N			N			Y	ABR	PT
L-58	BL	N			N			N			Y	RS	PT
L-59	BL	N			N			N			Y	NM	PT
61	BL	N			N			Y	ABR	PT	N		
L-62	BL	N	BS		N			N			Y	ABR	CT
L-63	BL	N			N			Y	RS	DSC	Y	RS	DSC
L-64	BL	N			N			N			Y	NM	PT

L-65	BL	Y	ABR,RS	DSC	N			Y	NM	DSC	Y	ABR,NM	CT		
L-66	BL	N			N			Y	RS	DSC	Y	RS	CT		
L-67	BL	N			N			N			Y	NM	DSC		
L-68	BL	N			Y	ABR	PT	Y	RS	DSC	Y	RS	PT		
L-69	BL	N			N			Y	RS	PT	N				
L-70	BL	N			N			Y	RS	PT	Y	RS	PT		
L-74	BL	N			N			Y	NM	PT	N	BS			
L-75	BL	N			N			Y	RS	PT	Y	RS	PT		
76	FL	N			Y	ABR	PT	N			N				
77	BL	N			N			Y	ABR	DSC	Y	NM	DSC		
L-78	BL	N			N			Y	NM	DSC	Y	RS	PT		
L-79	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-80	BL	N			N			Y	ABR,NM	PT	Y	ABR,NM	PT		
L-81	BL	N			N			Y	NM	PT	Y	NM	PT		
L-82	FL	N			N			Y	ABR,NM	PT	Y	ABR,NM	PT		
L-83	BL	N			N			Y	ABR	PT	Y	RS	DSC		
L-84	FL	Y	RS	CT	N			N			N				
L-86	FL	Y	RS	PT	N			N			Y	RS	DSC		
L-87	BL	N			N			Y	NM	DSC	Y	NM	PT		
L-88	BL	N			N			Y	NM	DSC	Y	NM	PT		
L-91	BL	N			N			Y	RS	DSC	N				
L-93	BL	N			Y	ABR	CT	Y	NM	DSC	Y	ABR,NM	PT		
96	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
L-97	BL	N			N			N			Y	ABR	PT		
L-98	FL	N			Y	NM	CT	Y	NM	CT	N				
L-99	BL	N			N			Y	NM	DSC	Y	RS	DSC		
L-100	FL	N			N			Y	RS	PT	N				
L-101	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC		
L-102	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
L-103	BL	N			N			Y	RS	DSC	Y	ABR,RS	PT		
105	BL	N			N			Y	RS	PT	Y	ABR	DSC		
L-104	BL	N			N			Y	RS	PT	Y	RS	DSC		
L-106	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-107	BL	N			N			N			Y	ABR,RS	DSC		
L-108	BL	N			Y	ABR	PT	Y	RS	DSC	Y	RS	DSC		
L-109	BL	Y	RS	PT	N			Y	RS	DSC	Y	NM,RS	DSC		
L-110	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-111	BL	N			Y	NM	PT	Y	NM	DSC	Y	RS	DSC		
L-112	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-113	BL	Y	ABR	PT	N			Y	ABR,RS	DSC	Y	RS	DSC		
L-114	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-115	BL	N			N			Y	RS	DSC	Y	ABR,RS	CT		
L-118	BL	N			N			Y	RS	PT	N				
L-119	BL	N			Y	RS	PT	Y	RS	DSC	Y	NM	DSC		
L-120	BL	Y	RS	PT	N			Y	RS	PT	N				
L-121	BL	N			N			Y	ABR,RS	DSC	N				
L-122	BL	N			N			Y	RS	PT	Y	RS	PT		
L-123	BL	N			N			Y	RS	PT	Y	RS	DSC		
L-124	BL	N			N			Y	NM	PT	N				
L-125	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-126	BL	N			N			Y	RS	PT	Y	RS	DSC		
L-128	BL	N			Y	NM	CT	Y	RS	DSC	Y	RS	PT		
L-129	BL	N			Y	ABR	DSC	N			N				
L-130	BL	N			N			Y	NM	DSC	Y	RS	DSC		
L-132	BL	N			N			Y	NM,RS	DSC	Y	RS	PT		
133	BL	N			N			Y	ABR,RS	PT	N				
134	BL	N			N			Y	ABR	DSC	N				
L-135	FL	N			N	BS		N			N				
L-137	BL	N			N			Y	NM	PT	Y	NM	DSC		
138	BL	N			N			Y	ABR	PT	Y	RS	DSC		
139	BL	N			N			N			Y	RS	DSC		
L-140	BL	N			N			Y	RS	PT	Y	RS	PT		
L-141	FL	N			N			Y	NM	DSC	N				
L-142	FL	Y	ABR,RS	CT	N			Y	RS	PT	Y	RS	CT		
L-143	BL	N			N			Y	NM	PT	Y	NM	PT		
144	BL	N			N			Y	RS	PT	N				
L-146	BL	N			N			Y	RS	PT	Y	RS	PT		
L-147	BL	N			Y	RS	PT	N			Y	RS	PT		
148	BL	N			N			Y	RS	PT	N				
L-149	FL	N			Y	RS	PT	N			Y	RS	PT		
L-151	BL	N			Y	ABR	PT	Y	NM	PT	N				
L-155	FL	N			N			Y	RS	PT	N	BS			
L-156	BL	N			N			N			Y	RS	DSC		
L-157	BL	N			Y	ABR	DSC	Y	RS	PT	N				
L-158	BL	N			N			Y	ABR,RS	DSC	Y	RS	DSC		
L-159	BL	N			N			Y	NM	PT	Y	RS	PT		
L-160	FL	N			Y	ABR,RS	DSC	N			N				
L-161	BL	N			Y	ABR	CT	Y	RS	PT	Y	RS	DSC		
L-163	FL	Y	ABR	PT	N			N			N				
L-164	FL	Y	NM	PT	Y	NM	DSC	Y	ABR,RS	DSC	Y	RS	CT		
L-166	FL	N			N			Y	ABR,RS	DSC	N				
L-167	FL	N			N			Y	RS	CT	Y	RS	PT		
L-168	FL	N			Y	ABR	PT	Y	NM,RS	PT	N				
L-173	FL	N			Y	NM,RS	DSC	N			Y	RS	PT		
L-174	FL	N			N			Y	ABR	PT	Y	ABR	DSC		

L-176	FL	N			Y	NM	DSC	Y	NM	DSC	N				
L-177	FL	N			N			N			N				
L-178	BL	Y	ABR	CT	N			Y	ABR	PT	Y	ABR,RS	DSC		
L-179	FL	Y	NM	PT	N			Y	NM	DSC	Y	RS	PT		
L-180	FL	Y	RS	PT	Y	NM	PT	N			Y	ABR	PT		
L-181	FL	N			Y	NM	PT	N			N				
L-182	FL	Y	NM	DSC	Y	ABR	PT	Y	RS	DSC	N	BS			
L-183	BL	N			Y	ABR	PT	Y	NM,RS	DSC	Y	ABR,NM	DSC		
L-184	FL	N			Y	ABR	PT	Y	NM,RS	DSC	Y	RS	PT		
L-187	FL	N			N			Y	NM,RS	DSC	N				
L-188	FL	N			Y	RS	PT	Y	NM	DSC	Y	RS	DSC		
L-189	FL														
L-190	FL	N			N			N			Y	ABR	CT		
L-191	FL	N			Y	RS	PT	N			N				
L-192	FL	N			Y	ABR	PT	Y	RS	PT	Y	RS	CT		
L-193	FL	N			Y	NM,RS	CT	N			Y	NM,RS	CT		
L-196	FL	N			N			Y	NM,RS	CT	Y	ABR	CT		
L-197	BL	N			Y	ABR	CT	Y	NM	DSC	N				
L-199	BL	N			N			Y	NM	DSC	Y	ABR	DSC		
L-200	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
L-206	BL	N			N			Y	NM	DSC	Y	NM	DSC		
L-207	BL	Y	RS	PT	N			Y	RS	PT	Y	NM,RS	DSC		
L-208	BL	Y	RS	PT	N			Y	RS	PT	N				
L-209	BL	N			N			N			Y	RS	CT		
L-210	FL	N			Y	ABR	CT	Y	NM	PT	Y	NM	PT		
L-212	FL	Y	ABR	CT	N			Y	NM	DSC	Y	NM	DSC		
L-213	FL	N			N			Y	NM	DSC	N				
L-214	BL	N			N			N			Y	RS	DSC		
L-215	FL	Y	NM	CT	N			N			Y	RS	DSC		
L-216	FL	N			Y	NM	DSC	N			N				
L-217	BL	N			N			N			Y	NM	CT		
L-218	FL	N			N			Y	RS	DSC	Y	NM	DSC		
L-220	FL	N			N			N			Y	ABR	PT		
L-223	FL	Y	NM	DSC	N			N			N				
L-224	FL	N			Y	RS	DSC	Y	NM,RS	DSC	N				
1-225	FL	N			Y	RS	DSC	Y	NM,RS	DSC	N				
L-226	FL	N			Y	RS	DSC	Y	NM,RS	DSC	N				
L-227	FL	N			Y	NM	PT	Y	RS	CT	Y	RS	DSC		
L-228	BL	N			Y	NM,RS	CT	Y	RS	CT	Y	RS	PT		
L-229	FL	N			N			Y	NM,RS	DSC	Y	NM	DSC		
L-230	FL	N			Y	NM	PT	N			Y	NM,RS	DSC		
231	FL	N			N			N			Y	ABR	DSC		
L-232	FL	N			Y	RS	PT	N			N				
L-233	FL	N			Y	NM,RS	DSC	N			N				
L-234	FL	N			Y	RS	DSC	N			N				
L-235	FL	N			N			Y	RS	DSC	N				
L-236	FL	Y	NM	PT	Y	NM,RS	DSC	Y	RS	DSC	Y	NM,RS	DSC		
L-237	FL	N			N			N			Y	NM	DSC		
L-238	FL	N			N			N			Y	NM,RS	DSC		
L-239	FL	N			N			N			Y	RS	PT		
1-240	FL	n			N			Y	NM,RS	DSC	Y	NM,RS	DSC		
L-241	FL	N			Y	ABR	CT	N			N				
L-242	FL	Y	RS	PT	N			Y	NM	DSC	Y	RS	CT		
1-243	FL	N			Y	RS	DSC	Y	ABR,NM	DSC	N				
L-245	FL	N			Y	NM	DSC	N			Y	NM	CT		
L-246	FL	N			Y	ABR	DSC	N			N				
L-247	FL	Y	NM	PT	N			N			Y	RS	PT		
L-249	FL	N			Y	ABR	PT	Y	NM,RS	CT	Y	RS	PT		
L-250	BL	N			N			Y	NM,RS	CT	Y	RS	DSC		
L-251	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
L-252	FL	N			Y	ABR	CT	Y	NM	DSC	N				
L-253	FL	N			Y	ABR,NM	DSC	Y	NM,RS	CT	Y	RS	DSC		
L-255	BL	Y	NM	PT	Y	ABR	CT	Y	NM,RS	DSC	Y	ABR	PT		
L-256	FL	N			Y	ABR	DSC	N			Y	RS	DSC		
L-257	FL	N			N			Y	NM	PT	N				
L-258	FL	N			N			Y	RS	PT	N				
L-259	FL	Y	RS	DSC	Y	NM	CT	Y	RS	CT	Y	RS	DSC		
L-262	FL	N			N			Y	ABR,RS	DSC	Y	ABR	PT		
L-263	BL	Y	ABR,RS	CT	N			Y	RS	DSC	N				
L-264	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	DSC		
L-265	FL	N			N			N			Y	ABR,NM	PT		
L-267	FL	N			Y	NM	DSC	N			N				
L-268	BL	N			N			Y	RS	PT	Y	RS	PT		
L-269	BL	N			Y	ABR	CT	Y	RS	PT	Y	NM,RS	CT		
L-270	BL	Y	NM	PT	N			Y	NM	DSC	Y	RS	CT		
L-271	FL	N			Y	ABR	PT	N			Y	RS	CT		
L-272	FL	N			N			Y	ABR	PT	Y	ABR	PT		
L-273	FL	N			N			N			Y	ABR,NM,RS	DSC		
L-275	FL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC		
L-276	BL	N			N			Y	RS	DSC	Y	ABR	DSC		
L-277	BL	N			N			Y	RS	DSC	Y	ABR	PT		
L-278	BL	N			Y	ABR	PT	N			N				
L-279	BL	N			Y	ABR,NM	PT	N	BS		Y	NM	DSC		
L-282	FL	N			Y	ABR	PT	Y	NM	DSC	N				
L-283	FL	N			N			Y	ABR	CT	Y	RS	PT		

L-284	FL	N			N			Y	NM	DSC	Y	NM	PT		
L-285	FL	N			Y	ABR	PT	Y	ABR	PT	N				
L-287	FL	N			N	BS		N			N				
L-289	FL	N			Y	ABR	PT	N			Y	ABR	PT		
L-290	FL	N			N			Y	NM	DSC	N				
L-292	BL	N			N			Y	NM	DSC	Y	NM	DSC		
L-295	FL	N			Y	NM	DSC	Y	NM	PT	Y	RS	DSC		
L-296	FL	N			N			Y	RS	CT	Y	ABR	PT		
L-297	FL	N			N			Y	RS	CT	Y	ABR	PT		
298	BL	N			N			N			Y	ABR,RS	CT		
L-300	BL	N			N			Y	RS	PT	Y	RS	PT		
L-301	FL	N			N			Y	RS	PT	N				
L-302	FL	N			N			Y	RS	PT	N				
L-303	BL	N			N			N			Y	RS	PT		
L-305	BL	Y	ABR	CT	Y	ABR	CT	Y	NM	DSC	N				
L-306	BL	N			N			N			Y	NM	CT		
L-307	FL	N			N			Y	NM	DSC	N				
L-308	BL	N			N			N			Y	NM,RS	DSC		
L-309	BL	N			N			Y	ABR	PT	Y	RS	DSC		
L-310	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
L-312	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
L-313	BL	N			N			N			Y	ABR	PT		
L-316	BL	N			N			Y	NM	DSC	N				
317	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
L-318	FL	N			Y	NM,RS	PT	N			N				
L-320	FL	N			Y	ABR	CT	N			N				
L-322	FL	N			Y	ABR	CT	N			N				
L-323	FL	N			Y	ABR,RS	CT	N			N				
L-324	FL	N			Y	ABR	CT	N			Y	ABR	PT		
L-325	FL	N			N			Y	NM,RS	PT	Y	RS	PT		
L-328	FL	N			N			Y	RS	PT	N				
L-330	FL	N			Y	NM	PT	N			N				
L-331	FL														
L-333	BL	N			N			N	BS		N	BS			
332	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC		
L-334	BL	N			N			Y	RS	DSC	N				
L-335	BL	N			N			Y	RS	DSC	Y	RS	PT		
L-337	BL	N			N			N			N				
L-338	BL	N			N			N			Y	ABR	PT		
339	BL	N			N			Y	RS	DSC	Y	NM	DSC		
L-340	FL	N			N			Y	RS	DSC	N				
L-343	BL	N			N			Y	RS	DSC	Y	RS	DSC		
346	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-348	FL	N			N			Y	RS	DSC	N				
L-349	BL	N			N			N			Y	NM	DSC		
355	FL	Y	ABR	PT	N			Y	RS	PT	Y	RS	PT		
L-358	BL	N			N			Y	NM,RS	CT	N				
L-360	FL	N			N			N			Y	RS	DSC		
362a	BL	N			N			Y	NM	PT	Y	NM	PT		
L-363	FL	N			Y	ABR	PT	N			N				
L-364	BL	N			N			Y	ABR	CT	N	NM	DSC		
L-365	FL	N			Y	ABR	CT	Y	RS	DSC	N				
L-367	FL	Y	ABR	CT	Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	DSC		
L-368	BL	N			N	BS		N	BS		Y	RS	PT		
L-370	FL	N			Y	RS	PT	N	BS		Y	ABR	PT		
L-371	FL	N			Y	ABR	PT	Y	ABR	PT	Y	NM	PT		
L-372	FL	N			Y	RS	DSC	N			N				
L-373	BL	N			N			N			Y	RS	DSC		
L-374	FL	N			Y	ABR	CT	Y	RS	DSC	N				
L-375	FL	N			Y	RS	PT	Y	RS	CT	Y	ABR	PT		
L-376	FL	N			N			Y	NM	PT	Y	NM	DSC		
L-377	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-379	BL	N			N			Y	NM	DSC	Y	NM	DSC		
L-380	BL	N			N			Y	NM	DSC	Y	NM	DSC		
L-381	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-384	FL	N			Y	RS	DSC	N			Y	NM	DSC		
L-386	BL	N			N			Y	ABR	PT	Y	ABR	CT		
L-387	FL	N			Y	ABR	PT	Y	RS	DSC	Y	RS	DSC		
L-388	FL	N			N			Y	NM,RS	DSC	Y	ABR,RS	PT		
L-389	BL	Y	NM	PT	Y	NM	PT	Y	ABR,RS	DSC	Y	RS	PT		
L-390	BL	N			N			Y	RS	DSC	Y	RS	DSC		
L-391	BL	N			Y	ABR	PT	Y	NM	DSC	Y	ABR,RS	CT		
1-392	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-393	BL	N			N			Y	RS	DSC	Y	ABR,RS	DSC		
L-394	BL	N			Y	ABR	CT	Y	NM,RS	DSC	N				
L-395	BL	Y	ABR,RS	CT	N			Y	RS	DSC	Y	ABR,RS	DSC		
L-396	BL	Y	RS	PT	N			Y	ABR	DSC	Y	RS	DSC		
L-397	BL	N			N			Y	ABR,RS	CT	N				
L-398	BL	N			N			Y	RS	CT	Y	RS	DSC		
1-399	BL	N			N			N			Y	NM,RS	DSC		
L-400	BL	N			N			Y	RS	DSC	Y	NM	DSC		
L-401	BL	N			N			Y	RS	CT	Y	RS	CT		
L-405	BL	N			N			N			Y	RS	PT		
L-407	FL	N			Y	ABR	CT	N			N				
408	BL	N			N			Y	ABR	CT	N				

410	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-411	BL	Y	NM	CT	N			N			N				
412	BL	N			N			Y	ABR	DSC	N				
423	BL	Y	ABR	PT	N			Y	ABR	DSC	N				
L-426	FL	Y	RS	DSC	N			Y	ABR	PT	N				
L-427	BL	N			N			N			Y	RS	PT		
L-429	BL	N			N			Y	NM	PT	N				
L-430	BL	N			N			Y	NM	DSC	N				
L-431	BL	Y	ABR	PT	N			N			N				
L-433	FL	N			Y	ABR	PT	N			N				
L435	FL	Y	ABR	CT	N			N			N				
L-436	FL	Y	NM	CT	N			N			N				
L-437	FL	Y	NM	DSC	N			N			Y	ABR	PT		
L-438	BL	N			Y	RS	PT	Y	RS	PT	Y	RS	PT		
L-439	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
L-440	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	PT		
L-441	BL	N			N			Y	ABR	CT	Y	ABR	PT		
L-443	BL	N			Y	ABR	CT	N			Y	RS	PT		
L-444	BL	N			N			N			Y	NM	PT		
L-447	FL	N			N			N			N	BS			
L-448	BL	N			N			Y	ABR,RS	DSC	N	BS			
449	BL	N			N			Y	ABR,RS	CT	Y	RS	DSC		
L-450	BL	N			N			Y	ABR	DSC	N				
L451	BL	N			N			N			Y	RS	PT		
L452	FL	N			N			N			Y	RS	CT		
L-454	BL	N			N	BS		N			N	BS			
L-455	BL	N			N			N			Y	NM	DSC		
L-458	BL	Y	ABR	DSC	N			Y	ABR	DSC	N				
L-460	BL	N			Y	ABR	DSC	N			N				
L-461	FL	N			N			N			Y	RS	PT		
L-462	FL	N			Y	ABR,RS	CT	N			Y	RS	CT		
L-463	BL	N			N			Y	RS	PT	Y	ABR,RS	DSC		
L-464	BL	N			N			Y	RS	PT	Y	ABR	CT		
L-465	FL	N			Y	ABR	CT	N			Y	ABR	PT		
L-471	FL	N			N			Y	ABR	DSC	N				
L475	BL	N			N			Y	ABR	DSC	Y	NM	PT		
L-477	FL	N			N			Y	RS	PT	N				
L-478	FL	N			Y	ABR	CT	N			N				
L-481	FL	N			N			Y	ABR	PT	Y	ABR	PT		
483	FL	N			N	BS		Y	ABR,RS	DSC	N				
L-484	BL	N			Y	RS	CT	Y	ABR,RS	DSC	Y	ABR,RS	DSC		
L-485	BL	N			N			Y	RS	DSC	Y	ABR	PT		
L-486	FL	N			Y	ABR,RS	CT	Y	NM	DSC	N				
L-487	FL	N			Y	ABR	PT	Y	RS	DSC	N				
L-488	FL	N			N			Y	ABR	DSC	N				
L-489	FL	N			Y	ABR	PT	N			N				
L-490	BL	N			N			N			Y	RS	PT		
L-491	FL	Y	RS	PT	N			Y	ABR,RS	CT	N				
L-492	FL	N			N			Y	ABR,RS	PT	Y	ABR	PT		
L-493	BL	N			N			Y	RS	PT	N				
L-495	BL	N			N			Y	RS	PT	Y	ABR	CT		
L-496	BL	N			N			Y	ABR,RS	PT	N				
L-497	FL	N			Y	ABR	CT	N			N				
L-498	BL	N			N			N			Y	RS	PT		
L-499	FL	N			N			Y	NM	PT	N				
L-500	BL	N			Y	ABR	CT	Y	RS	PT	Y	ABR	CT		
L-502	BL	N	BS		N			N			Y	ABR	PT		
L-503	BL	N			N			Y	NM	DSC	Y	ABR	DSC		
L-506	FL	N			N			Y	ABR	PT	Y	NM	PT		
L-507	BL	N			N			N			Y	RS	PT		
L-511	BL	N			N			N			Y	RS	PT		
L-513	BL	Y	RS	CT	N			Y	NM,RS	DSC	Y	ABR	DSC		
L-514	BL	N			Y	ABR	PT	N			N				
L-515	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
L-517	BL	N			N			N			Y	RS	DSC		
L-518	FL	N			N			Y	ABR	PT	N				
L-519	FL	N			N			N			Y	NM	CT		
L-523	FL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
L-525	FL	N			N			Y	RS	PT	N				
L-526	FL	N			N			Y	RS	PT	N				
L-528	FL	N			N			N			Y	NM	PT		
L-529	FL	Y	ABR	PT	N			Y	ABR	PT	N				
L-537	FL	N			N			Y	NM	DSC	N				
L-541	BL	N			N			N			Y	NM	CT		
L-545	FL	N			N			N			Y	NM	PT		
L-549	FL	Y	ABR	PT	N			Y	ABR	PT	N				
L-552	FL	N			N			Y	ABR	PT	N				
L-557	FL	N			Y	ABR	PT	N			N				
L-559	FL	N			Y	ABR	DSC	N			N				
L-560	FL	N			Y	ABR	PT	N			N				
L-561	FL	N			N			Y	ABR	PT	N				
L-567	FL	N			Y	ABR	PT	Y	RS	PT	N				
L-575	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-576	FL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-577	FL	N			N			Y	ABR	DSC	N				

L-581	FL	N			Y	ABR	CT	N			N				
L-582	BL	N			Y	ABR	CT	N			N				
L-583	BL	N			Y	ABR	CT	Y	ABR	PT	N				
L-584	BL	N			N			Y	RS	PT	N				
L-586	BL	N			N			Y	ABR,RS	PT	Y	ABR	PT		
L-587	FL	N			N			Y	RS	DSC	N				
L-588	BL	N			N			Y	ABR	CT	N				
L-589	BL	N			N			Y	ABR	PT	Y	ABR	PT		
L590	FL	N			Y	RS	PT	N			Y	RS	PT		
L-591	FL	N			Y	ABR	CT	N			Y	ABR	PT		
L-592	FL	N			Y	RS	PT	N			N				
L-593	BL	N			N			Y	RS	PT	N				
L-594	BL	N			Y	NM	CT	Y	NM	CT	Y	RS	CT		
L-595	FL	Y	NM	CT	Y	RS	PT	N			N				
L-597	BL	N			N			Y	NM	PT	N				
L-600	FL	N			N			Y	ABR	PT	N				
L-603	BL	N			N			Y	NM	PT	N				
L-612	BL	N			Y	ABR	CT	N	BS		Y	ABR	PT		
L-613	FL	N			Y	ABR	PT	Y	ABR	DSC	N				
L-614	FL	N			Y	NM	PT	Y	ABR,RS	DSC	N				
L-615	BL	N			Y	NM	PT	Y	RS	PT	N				
L-616	FL	N			N			Y	ABR,RS	DSC	N	ABR	PT		
L-618	FL	N			N			Y	ABR	PT	N	RS	PT		
L-622	FL	N			N			Y	ABR	PT	Y	NM	PT		
L-623	BL	N			N			N			Y	ABR,RS	DSC		
L-624	BL	N			Y	ABR	CT	N			Y	ABR,NM	PT		
L-626	FL	N			N			Y	ABR	CT	N				
L-627	BL	Y	ABR	PT	N			Y	NM	PT	Y	ABR	CT		
L-628	BL	Y	NM	PT	N			Y	RS	DSC	Y	RS	DSC		
L-629	FL	N			N			N			Y	RS	PT		
L-630	BL	N			N			N			Y	RS	PT		
L-631	FL	N			N			Y	ABR	DSC	Y	ABR,NM	DSC		
L-632	BL	N			N			N			Y	ABR	PT		
L-634	BL	N			Y	NM	PT	N			Y	NM	PT		
L-639	FL	N			N			Y	NM,RS	CT	Y	ABR	DSC		
L-640	BL	N			N			Y	RS	DSC	N				
L-641	BL	Y	ABR	PT	N			Y	NM	DSC	N				
L-646	BL	N			N			Y	ABR	DSC	Y	NM	DSC		
L-649	BL	N			N			Y	ABR	DSC	Y	NM	PT		
L-652	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
L-653	BL	N			N			Y	RS	PT	N				
L-654	BL	N			N			Y	ABR	PT	N				
L-656	BL	N			N			Y	NM	PT	Y	NM,RS	PT		
L-658	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
L-660	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC		
L-661	BL	N			Y	ABR	DSC	Y	ABR,RS	DSC	Y	ABR,RS	DSC		
L-662	BL	N			N			Y	ABR	PT	Y	NM	DSC		
L-663	BL	N			N			N			Y	ABR,RS	DSC		
L-664	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-668	BL	N			N			Y	NM	PT	Y	NM	PT		
L-676	BL	N			N			Y	ABR	PT	Y	RS	PT		
L-677	BL	N			N			N			Y	ABR	PT		
L-679	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-680	BL	N			N			N			Y	NM	PT		
L-681	BL	N			N			N			Y	ABR	PT		
L-682	BL	N			N			Y	ABR	PT	N				
L-685	BL	N			N			Y	ABR,RS	DSC	Y	RS	PT		
L-686	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
L-687	BL	N			N			N			Y	ABR,NM	DSC		
L-689	BL	N			N			N			Y	ABR	DSC		
L-690	BL	N			N			Y	NM	PT	Y	RS	DSC		
L-691	BL	N			N			Y	ABR	PT	N				
L-695	BL	N			N			Y	RS	PT	Y	RS	PT		
L-699	BL	N			N			Y	ABR	PT	Y	NM	DSC		
L-705	BL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	CT		
L-709	FL	N			N			Y	ABR	DSC	N				
L-710	FL	N			N			Y	ABR,RS	DSC	Y	ABR	PT		
L-711	FL	N			Y	ABR	CT	N			N				
L-712	FL	N			N			Y	NM	PT	Y	ABR	DSC		
L-715	FL	N			Y	ABR	PT	N			Y	ABR	CT		
L-716	BL	N			N			Y	ABR	CT	N				
L-717	FL	N			N			N			Y	ABR	PT		
L-719	FL	Y	ABR	PT	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
L-721	FL	Y	ABR	PT	N			N			Y	ABR	PT		
L-722	BL	Y	ABR	PT	N			N			Y	RS	PT		
L-723	FL	Y	ABR	DSC	N			N			N				
L-724	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR,RS	DSC		
L-726	BL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	PT		
L-727	FL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	DSC		
L-730	BL	N			N			Y	ABR	CT	Y	RS	CT		
L-732	FL	N			N			Y	ABR	DSC	N				
L-733	BL	N			Y	ABR	PT	Y	NM	PT	N				
L-734	FL	Y	ABR	PT	N			N			N				
L-735	FL	N			Y	ABR	PT	N			N				
L-736	FL	Y	ABR	CT	Y	ABR	CT	N			N				

L-737	FL	Y	ABR	PT	N			N			Y	ABR	PT		
L-738	FL	N			N			N			Y	NM	PT		
L-740	FL	Y	NM	PT	Y	ABR	DSC	N			Y	ABR	PT		
L-742	FL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	PT		
L-743	FL	N			N			Y	ABR	PT	N				
L-744	FL	N			Y	ABR	CT	Y	ABR,RS	CT	N				
L-751	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
L-752	FL	N			N			N			Y	ABR	PT		
L-755	FL	Y	NM	PT	N			Y	NM	PT	N				
L-756	FL	Y	ABR	CT	Y	ABR	CT	Y	ABR	DSC	Y	ABR	PT		
L-758	BL	N			N			N			Y	ABR,NM	CT		
L-759	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
L-764	FL	N			Y	ABR	DSC	N			Y	ABR	PT		
L-765	FL	N			N			N	BS		N	BS			
L-767	FL	N			N			Y	NM	PT	N				
L-768	FL	Y	ABR	PT	N			N			N				
L-769	FL	N			Y	ABR	CT	Y	NM	CT	N				
L-771	BL	N			Y	ABR	PT	Y	NM	CT	N				
L-772	FL	N			Y	RS	CT	Y	RS	PT	N				
L-773	BL	Y	ABR	DSC	N			Y	ABR	CT	N				
L-774	BL	Y	ABR	PT	N			Y	ABR	PT	Y	RS	PT		
L-776	FL	N			N			Y	ABR	PT	Y	ABR	CT		
L-777	FL	N			N			Y	NM	PT	N				
L-778	FL	Y	RS	PT	N			Y	ABR,RS	DSC	Y	RS	PT		
L-780	FL	N			Y	ABR	CT	Y	ABR	CT	N				
L-781	FL	N			Y	ABR	PT	N			N	BS			
L-782	BL	N			N			N			Y	RS	PT		
L-783	FL	N			N			Y	NM	PT	N				
L-784	FL	N			Y	ABR	CT	N			Y	NM	PT		
L-785	BL	N			Y	NM	PT	N			Y	RS	PT		
L-786	BL	N			N			N			Y	RS	PT		
L-787	BL	N			N			Y	ABR	PT	N				
L-788	FL	N			Y	RS	PT	N			N				
L-789	BL	N			N			N			Y	NM,RS	CT		
L-791	BL	N			N			N			Y	ABR	DSC		
L-793	FL	Y	ABR	PT	N			N			Y	ABR	PT		
L-794	FL	N			Y	ABR	PT	N			N				
L-795	FL	N			N			Y	NM	PT	Y	ABR	PT		
L-796	FL	N			Y	ABR,NM	PT	N			N				
L-799	BL	N			Y	ABR	PT	Y	NM	PT	Y	RS	DSC		
L-800	FL	N			N			N			Y	ABR	DSC		
L-801	BL	N			N			Y	ABR	DSC	N				
L-807	BL	N			N			Y	ABR	DSC	N				
L-808	FL	N			N			Y	ABR	PT	Y	ABR	PT		
L-809	FL	N			Y	ABR	PT	Y	ABR	PT	N				
L-810	BL	N			N			Y	ABR	PT	Y	ABR	PT		
L-811	FL	N			N			N			Y	ABR	DSC		
L-812	FL	Y	ABR	PT	Y	RS	PT	Y	ABR	CT	Y	ABR	PT		
L-817	FL	N			Y	ABR	CT	Y	ABR	PT	N				
L-821	FL	N			N			Y	ABR	PT	Y	ABR	PT		
L-823	FL	N			N			N			Y	RS	CT		
L-827	FL	N	BS		Y	NM	PT	N			N				
L-828	FL	N			Y	ABR	DSC	Y	ABR	PT	Y	ABR,NM	DSC		
L-829	BL	N			N			Y	ABR	CT	Y	ABR	DSC		
L-830	BL	N			N			N			Y	ABR	PT		
L-831	FL	N			Y	ABR	PT	N			N				
L-832	FL	N			Y	ABR	PT	N			N				
L-833	BL	N			N			Y	NM	DSC	Y	NM	DSC		
L-834	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
L-835	BL	N			Y	RS	PT	N			Y	ABR	DSC		
L-837	FL	N			Y	RS	PT	N			Y	ABR	PT		
L-838	BL	N			N			N			Y	ABR	DSC		
L-839	FL	Y	ABR	PT	N			Y	NM	DSC	Y	NM	DSC		
L-840	FL	N			N			Y	ABR	CT	N				
L-841	FL	N			Y	ABR	PT	Y	ABR	PT	N				
L-842	BL	N			Y	NM	PT	N	BS		N				
L-843	FL	Y	NM	DSC	N			N			N				
L-844	FL	N			Y	ABR	PT	Y	ABR	CT	Y	ABR	PT		
L-845	FL	Y	NM	DSC	N			N			N				
L-846	FL	N			Y	RS	PT	N			N				
L-847	FL	N			Y	ABR	PT	Y	ABR	PT	N				
848	BL	N			Y	ABR	CT	N			N				
849	BL	N			N			Y	ABR	PT	N				
850B	FL	N			Y	RS	PT	Y	ABR	DSC	Y	ABR	DSC		
851	FL	N			Y	ABR	DSC	N			Y	ABR	PT		
852	FL	N			N			Y	RS	DSC	Y	ABR	DSC		
853	FL	Y	ABR	PT	Y	ABR	PT	Y	ABR	PT	Y	ABR	PT		
854	FL	Y	ABR	PT	Y	ABR	DSC	N			Y	ABR	CT		
855	FL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	DSC		
856	FL	N			Y	ABR	CT	N			Y	ABR	PT		
857	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
859	FL	N			N			Y	ABR	PT	N				
860	FL	Y	ABR	DSC	N			N			N				
861	FL	Y	RS	PT	Y	ABR	PT	N			N				
862	FL	N			Y	ABR	DSC	N			N				

863	BL	N			N			Y	ABR	PT	Y	ABR	PT		
866	BL	N			Y	ABR	PT	N			Y	ABR	DSC		
867	BL	N			N			Y	ABR	PT	N				
869	BL	N			N			N			Y	ABR	PT		
870	BL	N			N			Y	NM	PT	Y	ABR	CT		
871	BL	N			N			Y	ABR	PT	Y	NM	CT		
872	BL	N			N			Y	ABR	CT	Y	RS	DSC		
873	BL	N			N			N	BS		N	BS			
876	BL	N			N			Y	ABR	PT	N				
877	BL	N			N			Y	ABR	PT	N				
878	BL	N			N			Y	ABR	DSC	N				
881	BL	N			N			Y	ABR	CT	Y	ABR	PT		
883	BL	N			N			N			Y	RS	PT		
886	BL	N			N			Y	RS	CT	N				
889	BL	N			N			N			Y	RS	PT		
890	FL	N			N			Y	RS	PT	N	BS			
897	BL	N			Y	ABR,RS	CT	Y	ABR	CT	Y	ABR	CT		
900	FL	N			N			Y	NM	DSC	N				
901	BL	N	BS		N			Y	ABR	CT	Y	NM	PT		
903	BL	N			Y	ABR	PT	Y	ABR,RS	DSC	Y	ABR	PT		
904	FL	N			Y	ABR	DSC	Y	ABR,RS	CT	N				
L-905	BL	N			N			N			N	BS			
906	FL	Y	ABR	PT	Y	ABR,RS	PT	N			Y	NM,RS	DSC		
907	FL	N			N			N			Y	ABR	PT		
908	FL	Y	RS	PT	Y	ABR	CT	Y	ABR	DSC	N				
909	FL	Y	ABR	PT	N			N			N				
910	FL	N			Y	ABR	DSC	Y	ABR	PT	Y	ABR	PT		
912	FL	Y	RS	PT	N			Y	RS	PT	N				
918	FL	Y	RS	DSC	N			N			N				
919	FL	N			N			N			Y	NM	PT		
920	FL	N			N			N			Y	RS	PT		
921	FL	N			Y	ABR	CT	N			N				
925	BL	N			Y	ABR	PT	Y	RS	DSC	Y	ABR	DSC		
928	FL	N			Y	RS	DSC	Y	NM	DSC	Y	NM	DSC		
929	FL	N			N			Y	ABR	PT	N				
930	FL	N			N			Y	RS	DSC	N				
931	FL	N			Y	ABR	PT	N			N				
932	BL	N			N			Y	RS	DSC	N				
934	BL														
935	FL	N			N			Y	ABR,RS	DSC	N				
937	BL	N	BS		N			N			Y	ABR	PT		
938	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR,RS	DSC		
939	BL	Y	ABR	CT	Y	ABR	CT	N			Y	RS	PT		
940	FL	Y	ABR	PT	Y	ABR	CT	Y	RS	PT	N				
946	FL	N			N			N			Y	ABR	PT		
947	FL	N			Y	ABR	PT	Y	NM	PT	Y	ABR	CT		
948	FL	Y	ABR	PT	Y	RS	PT	N			Y	ABR	PT		

LEVEL M DEBITAGE DATABASE

spc#	type	por	plat	plattype	cor%	bulb	term	dscr	dscror	len	wid	wght	seg	rtch	notes
1	COR									.	.	387.4			
2	COR									.	.	.			
3	COR									.	.	388.2			
4	COR									.	.	151.6			
5	COR									.	.	156.4			
6	COR									.	.	560.2			
7	COR									.	.	.			
8	COR									.	.	285.5			
9	COR									.	.	357.9			
10	COR									.	.	457.9			
11	COR									.	.	462.3			
12	COR									.	.	371.8			
13	COR									.	.	114			
14	COR									.	.	559.3			
15	COR									.	.	380.4			
16	COR									.	.				
17	COR									.	.	130.3			
18	COR									.	.	260.4			
19	COR									.	.	357.9		Y	M01
20	COR									.	.	.		Y	M01
21	FL	SD	Y	RD	1	PR	IN(RT)	Y	1,2,4	42.3	68	47.2	CO	Y	M01
22	FL	SD	Y	AN	1	DF	AX	Y	1,4	40	26.1	9.7	CO	Y	M
23	FL	SD	Y	RD	1	DF	IN(RT)	Y	1,3	65.6	51	43.8	CO	Y	M
24	BL	SD	Y	FL	1	PR	NM	Y	1	20.7	52.6	12.1	PR	Y	M
25	FL	CNP	N	NA	1	NA	IN(RT)	Y	2,4	40.7	20	6.6	DS	Y	M
26	FL	CNP	N	NA	1	NA	HG	Y	1,2	48.2	58.9	30.9	DS	Y	M
27	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,3,4	49.6	25.4	25.8	DS	Y	M
28	FL	SD	Y	FL	1	DF	HG	Y	2,3	53.8	18.9	11.4	PR	Y	M
29	FL	TD	Y	AN	0	PR	IN(RT)	Y	2,3,4	60.6	32.9	18	CO	Y	M01
30	BL	NC	N	NA	0	NA	AX	Y	1,4	33.9	11.9	2.4	DS	Y	M
31	FL	NC	N	NA	0	NA	IN(RT)	Y	IN	19.5	42.6	9.2	DS	Y	M
32	BL	CNP	N	NA	2	NA	AX	Y	1,4	25.2	11.1	2.9	DS	Y	M01
33	BL	NC	N	NA	0	NA	AX	Y	1,2	38.1	17.8	9.1	DS	Y	M00
34	FL	SD	Y	AN	3	DF	IN(RT)	Y	1	55.4	32.6	23.3	CO	Y	M01

35	FL	SD	Y	FL	3	PR	NM	Y	2,3	34.6	33.7	10.7	CO	N	M00
36	FL	SD	Y	CTX	1	DF	AX	Y	1,2,3,4	77.2	61.5	145.7	CO	N	M
37	FL	PD	Y	CTX	5	PR	NM	N	NA	29.5	23.5	4.9	CO	Y	M01
38	FL	SD	Y	AN	4	PR	NM	N	NA	17.2	26.7	2.8	CO	Y	M01
39	FL	SD	Y	CTX	2	DF	NM	Y	2,3	85.6	62.8	90.2	CO	N	M02
40	FL	PD	Y	FL	5	PR	NM	N	NA	18	25.5	2.6	CO	Y	M01
41	FL	SD	Y	AN	1	PR	SN	Y	1,3	41.5	35.2	12.6	PR	Y	M
42	FL	SD	Y	AN	1	DF	SN	Y	1	33.7	45.8	12.6	PR	N	M
43	FL	SD	Y	FL	2	PR	SN	Y	1,4	29	36.7	9.4	PR	Y	M02
44	BL	SD	Y	FL	1	DF	SN	Y	1,2,4	41.6	21.9	6.5	PR	Y	M01
45	BL	CNP	N	NA	1	NA	OP	Y	1	41.5	14.8	9.6	DS	Y	M00
46	FL	SD	Y	AN	1	DF	SN	Y	1	23.5	21	3.6	PR	Y	M
47	FL	SD	Y	FL	1	PR	SN	Y	1,2,4	23.7	28.4	3.5	PR	Y	M01
48	FL	SD	Y	FC	1	NA	NM	Y	1,4	31.5	30.3	9.3	PR	Y	M02
49	BL	SD	Y	FL	1	PR	HG	Y	1	22.2	13.7	1.7	CO	Y	M
50	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,3	31.8	26.7	7.3	DS	Y	M01
51	BL	SD	Y	RD	2	DF	AX	Y	1,4	60.3	20.2	13.5	CO	Y	M02
52	BL	TD	Y	AN	0	DF	SN	Y	1,4	33.4	13.8	3.5	PR	Y	M02
53	BL	TD	Y	AN	0	DF	SN	Y	1	20.1	27.1	4.7	PR	Y	M01
54	BL	TD	Y	FC	0	DF	HG	Y	1	30.3	22.2	5.8	PR	Y	M01
55	FL	TD	Y	FC	0	DF	SN	Y	1,4	16.1	21.1	1.4	PR	Y	M01
56	FL	NC	N	NA	0	NA	AX	Y	1,4	40.6	22.8	3.9	DS	Y	M01
57	BL	TD	Y	FL	0	DF	IN(RT)	Y	1,4	25.8	15.6	1.5	PR	Y	M00
58	FL	TD	Y	FL	0	PR	SN	Y	1,4	18.1	26.7	3.3	PR	Y	M01
59	FL	NC	N	NA	0	DF	HG	Y	1,4	26.4	21.7	3.4	DS	Y	M
60	FL	SD	Y	FC	1	PR	SN	Y	1	21	21.5	3.3	PR	Y	M01
61	BL	TD	Y	AN	0	PR	SN	Y	1,4	34.5	22.5	6.9	PR	Y	M01
62	FL	TD	Y	AN	0	PR	SN	Y	1,4	20.5	27.7	4.4	PR	Y	M
63	FL	SD	Y	FL	1	DF	SN	Y	1,4	21.6	23.8	3.5	PR	N	M00
64	BL	TD	Y	FL	0	PR	IN(RT)	Y	1	21.3	10.7	1	PR	Y	M
65	BL	PD	Y	AN	5	PR	SN	N	NA	21.9	17.8	3.6	PR	Y	M01
66	FL	TD	Y	FL	0	PR	HG	Y	1,4	26.5	32.4	4.8	PR	Y	M
67	FL	TD	Y	AN	0	DF	HG	Y	1	14.8	19.4	1.8	PR	Y	M01
68	BL	TD	Y	FL	0	PR	SN	Y	1,4	28.7	15.7	1.8	PR	Y	M
69	FL	TD	Y	RD	0	PR	SN	Y	1	23.7	26.2	4	PR	Y	M
70	BL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	24	16.2	2.1	PR	Y	M01
71	BL	TD	Y	RD	0	PR	IN(RT)	Y	1,4	24.5	18.8	2.3	PR	Y	M
72	BL	TD	Y	FL	0	DF	AX	Y	1,4	21.4	15.3	1.7	CO	Y	M02
73	BL	TD	Y	AN	0	PR	AX	Y	4	27.9	18.6	2.4	CO	Y	M01
74	BL	SD	Y	AN	1	PR	AX	Y	1,4	35.2	17.4	4.8	CO	Y	M01
75	BL	NC	N	NA	0	DF	SN	Y	1,4	21.8	17.9	2.6	DS	Y	M01
76	BL	SD	Y	FL	2	DF	SN	Y	1,4	25.9	21.7	4.5	PR	Y	M01
77	FL	TD	Y	AN	0	DF	SN	Y	1	15	20.5	1.5	PR	Y	M01
78	FL	TD	Y	FL	0	PR	HG	Y	1,4	20.4	25.3	3.3	PR	Y	M
79	BL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	29.3	18.2	3.6	PR	Y	M02
80	FL	SD	Y	FL	1	PR	SN	Y	1,4	27.2	24.2	3.9	PR	Y	M01
81	BL	SD	Y	FL	1	DF	SN	Y	4	20.7	16.9	1.7	PR	Y	M01
82	BL	TD	Y	FL	0	DF	SN	Y	1	36.9	13.9	3.2	PR	Y	M
83	BL	TD	Y	FL	0	PR	SN	Y	1,4	28.5	17.8	2.2	PR	Y	M01
84	FL	TD	Y	AN	0	DF	SN	Y	1,4	23.2	24.3	4.3	PR	Y	M01
85	BL	TD	Y	AN	0	DF	SN	Y	1,4	17.2	11	0.8	PR	Y	M
86	BL	TD	Y	FL	0	DF	SN	Y	1	21.7	14	1.7	PR	N	M01
87	FL	TD	Y	RD	0	PR	SN	Y	1	18.6	20.4	1.8	PR	Y	M
88	BL	NC	N	NA	0	NA	HG	Y	1,4	25.2	10.5	1.3	DS	Y	M02
89	BL	TD	Y	FL	0	DF	HG	Y	1	21.8	34.2	4.3	PR	Y	M
90	FL	TD	Y	AN	0	DF	HG	Y	1,4	26.3	26.3	4.5	PR	Y	M01
91	FL	SD	Y	AN	2	DF	SN	Y	4	17.2	20	1.7	PR	Y	M00
92	FL	TD	Y	FL	0	PR	HG	Y	1,4	20.8	19.8	1.7	PR	Y	M01
93	FL	TD	Y	FL	0	PR	HG	Y	1,4	12.8	17.5	1.3	PR	N(FN)	M
94	BL	SD	Y	CR	1	PR	SN	Y	1,4	18.4	14.9	1.4	PR	Y	M01
95	BL	TD	Y	AN	0	DF	HG	Y	1,4	16.2	12.9	0.9	PR	Y	M
96	FL	TD	Y	AN	0	DF	SN	Y	1,4	16.5	22	2.7	PR	N	M01
97	FL	TD	Y	AN	0	DF	HG	Y	1,4	15.5	17.6	1.8	PR	Y	M
98	BL	TD	Y	AN	0	DF	IN	Y	1,4	24.3	22.7	4	PR	Y	M02
99	FL	TD	Y	AN	0	DF	HG	Y	1,4	25.6	21.5	3.6	PR	N(FN)	M02
100	BL	TD	Y	AN	0	DF	HG	Y	1,4	25.3	17.3	2	PR	Y	M01
101	BL	SD	Y	AN	1	PR	SN	Y	4	25	15.4	2.3	PR	N	M02
102	FL	TD	Y	CR	0	DF	SN	Y	1,4	31.3	26.1	8.5	PR	Y	M
103	FL	TD	Y	AN	0	PR	SN	Y	1,4	20.3	16.1	1.1	PR	N	M02
104	BL	TD	Y	AN	0	DF	SN	Y	1,4	17.8	21.3	2.2	PR	Y	M00
105	FL	TD	Y	FL	0	PR	HG	Y	1,4	19.7	17.5	1.7	PR	Y	M00
106	BL	TD	Y	AN	0	DF	HG	Y	1	16.3	16.7	1.2	PR	Y	M01
107	BL	TD	Y	FL	0	FO	SN	Y	1,4	23.1	17.9	1.9	PR	Y	M01
108	FL	CNP	N	NA	1	NA	HG	Y	1,3,4	79	43.1	52.5	DS	Y	M00
109	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	26.3	12.1	21.1	MD	Y	M00
110	FL	TD	Y	RD	0	PR	IN(RT)	Y	1,4	25.6	26.6	3.6	PR	Y	M
111	FL	TD	Y	FL	0	PR	SN	Y	1,4	20.6	11.1	1.1	PR	Y	M01
112	BL	CNP	N	NA	2	NA	HG	Y	1	18.5	15.3	2.5	DS	Y	M00
113	FL	SD	Y	FL	1	PR	IN(RT)	Y	1,3,4	26.6	12.3	1.8	PR	Y	M00
114	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	17.8	21.6	3.1	DS	N	M01
115	FL	TD	Y	FL	0	FO	SN	Y	1,4	22.1	12.2	1.5	PR	Y	M01
116	BL	TD	Y	FL	0	FO	HG	Y	1,4	24.6	13.5	2.1	PR	Y	M01
117	BL	NC	N	NA	1	NA	AX	Y	1,3	21.1	21	3.7	DS	Y	M
118	BL	TD	Y	AN	0	DF	SN	Y	1,4	26.4	12.2	1.5	PR	Y	M00
119	BL	TD	Y	FL	0	PR	SN	Y	1,3,4	27.4	16.3	2.7	PR	Y	M01

120	BL	SD	Y	CTX	1	PR	HG	Y	2,4	20.8	10.6	0.8	PR	Y	M01
121	FL	TD	Y	CR	0	DF	IN(RT)	Y	1,2,3	19.2	21.7	2	PR	Y	M
122	BL	TD	Y	FL	0	PR	SN	Y	1,2,4	17.4	20.3	3.8	PR	Y	M
123	FL	TD	Y	AN	0	PR	SN	Y	1,4	26.3	13.6	1.8	PR	N	M02
124	BL	SD	Y	AN	1	PR	SN	Y	1	26.8	11.9	1.2	PR	N	M02
125	BL	TD	Y	FL	0	PR	HG	Y	1,4	19.8	15.2	1.1	PR	Y	M02
126	FL	TD	Y	AN	0	DF	HG	Y	1,4	15.7	17.2	1.1	PR	Y	M01
127	BL	NC	N	NA	0	NA	AX	Y	1,4	18.2	16	1	DS	Y	M01
128	BL	SD	Y	RD	1	PR	SN	Y	1	12.6	22.7	1.1	PR	Y	M
129	FL	TD	Y	RD	0	PR	IN(RT)	Y	1,2,4	24.4	47.8	13.1	CO	Y	M01
130	FL	SD	Y	RD	1	PR	IN(RT)	Y	1,2,3,4	56	33.9	21.2	CO	Y	M
131	FL	SD	Y	AN	1	PR	HG	Y	1,2,3,4	53.1	50.9	52.8	CO	Y	M01
132	FL	SD	Y	FL	1	DF	IN(RT)	Y	1,4	56.1	38.1	21.6	CO	Y	M
133	FL	TD	Y	AN	0	PR	HG	Y	2,3	22.7	30.5	4.6	CO	Y	M
134	FL	SD	Y	FC	1	PR	IN(RT)	Y	1,4	44.5	41.1	18.6	CO	Y	M
135	FL	SD	Y	FL	1	DF	IN(RT)	Y	1,4	54.1	35	27.3	CO	N	M02
136	FL	SD	Y	FL	1	DF	IN(RT)	Y	1,3,4	39.1	32.3	8.4	CO	Y	M
137	FL	TD	Y	RD	0	DF	SN	Y	3	22.3	14.4	1.7	CO	Y	M00
138	FL	TD	Y	AN	0	DF	NM	Y	1	24.7	19.2	2.7	CO	N	M01
139	FL	CNP	N	NA	1	NA	AX	Y	1,2,4	36.7	26.5	6.7	DS	Y	M01
140	FL	PD	Y	AN	5	PR	HG	N	NA	38.3	35.5	21.8	CO	N	M01
141	FL	SD	Y	AN	3	PR	IN(RT)	Y	1,4	41.7	31.5	9.5	CO	Y	M01
142	FL	SD	Y	FL	2	PR	AX	Y	1,3	64.3	42.8	40.4	CO	Y	M00
143	BL	SD	Y	AN	2	PR	NM	Y	1,2	65	42.3	47.2	CO	Y	M
144	FL	SD	Y	CR	2	PR	NM	Y	1,2	20.7	33.1	3.2	CO	N	M00
145	FL	SD	Y	CTX	2	DF	IN(RT)	Y	4	35.9	38	15.6	CO	Y	M
146	FL	PD	Y	AN	5	DF	AX	N	NA	39.5	36.6	19.2	CO	Y	M01
147	FL	PD	Y	FL	5	FO	OP	N	NA	32	49	16.6	CO	Y	M
148	FL	SD	Y	FL	3	DF	OP	Y	2	52.6	37.7	15.5	CO	Y	M
149	FL	SD	Y	AN	1	DF	OP	Y	1,4	42	35.3	7.1	CO	Y	M01
150	FL	SD	Y	AN	2	DF	OP	Y	1	50.5	35	16.7	CO	Y	M01
151	FL	TD	Y	AN	0	PR	IN(RT)	Y	1	28.7	31.8	6.4	CO	Y	M
152	FL	TD	Y	AN	0	PR	HG	Y	4	23	16.4	2.2	PR	Y	M00
153	FL	CNP	N	NA	1	PR	IN(RT)	Y	4	45.6	30.2	11.3	DS	Y	M
154	FL	SD	Y	CR	1	DF	AX	Y	1	29.6	20.1	2.4	CO	Y	M00
155	FL	CNP	N	NA	1	NA	IN(RT)	Y	1	29.3	41.8	13.7	DS	Y	M
156	BL	TD	Y	IN	0	DF	IN(RT)	Y	1,4	33.1	18.6	4	CO	Y	M01
157	FL	TD	Y	AN	0	PR	OP	Y	1,4	27	19.9	2.7	CO	N	M01
158	FL	SD	Y	AN	1	DF	HG	Y	1	22.9	31.6	5.3	PR	Y	M01
159	FL	SD	Y	AN	2	DF	OP	Y	1,3	48.6	30	18.5	CO	N	M
160	FL	SD	Y	FL	2	DF	AX	Y	1,4	62.9	50.4	86.8	CO	N	M
161	COR									.	.	33.7		Y	M
162	COR									.	.	142.5		N	M02
163	FL	PD	Y	AN	5	PR	IN	N	NA	68.4	94.3	203.3	PR	Y	M01
164	FL	SD	Y	AN	3	FO	AX	Y	3	98.5	64.9	142.5	CO	Y	M01
165	FL	SD	Y	AN	1	FO	HG	Y	1,2,3	69.9	67	142.5	CO	Y	M
166	FL	CNP	N	NA	4	NA	AX	Y	4	70.3	53.9	123.9	DS	Y	M00
167	FL	SD	Y	AN	1	FO	IN	Y	2,3,4	58.8	43.3	57.9	CO	Y	M
168	BL	SD	Y	AN	2	PR	AX	Y	3	31.8	23.1	7	CO	Y	M00
169	FL	SD	Y	FL	1	FO	IN(RT)	Y	1,3	38.7	29.5	15.3	CO	Y	M
170	FL	CNP	N	NA	2	NA	HG	Y	1,2	61.8	34	36.7	DS	N	M
171	FL	SD	Y	CTX	3	DF	SN	Y	1,2	34.2	45.4	24.8	PR	Y	M
172	FL	SH	N		0	NA				.	.	85.8	CO	Y	M01
173	FL	SD	Y	AN	2	FO	NM	Y	1,2,3	46.6	43.9	26.9	CO	Y	M01
174	FL	SD	Y	AN	1	DF	IN(RT)	Y	1	26.5	20.8	6.5	CO	Y	M00
175	FL	TD	Y	AN	0	PR	NM	Y	1	17.9	44.7	7.2	CO	N	M00
176	FL	TD	Y	AN	1	DF	HG	Y	1	18.5	23.7	2.3	CO	N	M01
177	FL	CNP	N	NA	5	NA	NM	N	NA	43.3	19.3	7.4	DS	Y	M02
178	FL	TD	Y	FL	0	DF	SN	Y	1,2	19.8	28	4.3	PR	Y	M02
179	FL	TD	Y	FL	0	FO	SN,HG	Y	1	21.6	24.7	2	PR	Y	M01
180	BL	SD	Y	FL	1	DF	AX	Y	2,4	24.8	35.8	5.5	PR	Y	M00
181	FL	SD	Y	RD	4	PR	NM	Y	1	27	26.1	5.1	CO	Y	M02
182	FL	NC	N	NA	0	NA	HG	Y	1,2,4	36.3	26.7	8.7	DS	Y	M02
183	FL	SD	Y	AN	1	DF	HG	Y	2	33.4	54.7	29	PR	N	M00
184	FL	TD	Y	FL	0	DF	HG	Y	2,4	22	29.2	3.6	PR	Y	M01
185	FL	TD	Y	AN	0	DF	HG	Y	4	25.4	33.9	8.2	PR	Y	M02
186	FL	SD	Y	FL	2	PR	IN(RT)	Y	1,2,4	39.8	28.2	13	CO	Y	M00
187	FL	PD	Y	FL	5	DF	AX	Y	1,4	24.6	17.8	2.2	CO	Y	M02
188	FL	SD	Y	FL	1	PR	SN	Y	1,4	33.9	26.4	8.3	PR	Y	M02
189	FL	NC	N	NA	0	NA	AX	Y	1	20.3	33.4	5.2	DS	Y	M02
190	BL	SD	Y	FL	2	DF	AX	Y	1	27.6	16.8	2.6	CO	Y	M02
191	FL	SD	Y	FL	1	PR	HG	Y	1,4	16.7	23.4	2.5	PR	N	M00
192	FL	CNP	N	NA	1	NA	NM	Y	1,4	23.3	33.5	8.2	DS	Y	M02
193	FL	SH	N		0	NA				.	.	8.6	CO	Y	M
194	BL	CNP	N	NA	1	NA	AX	Y	1	.	.	11.7	DS	Y	M01
195	FL	CNP	N	NA	1	NA	AX	Y	1,2,4	31.8	35.5	9.8	DS	Y	M01
196	FL	SD	Y	AN	4	PR	AX	Y	2	67.8	67.1	52.3	CO	Y	M
197	FL	SD	Y	AN	3	PR	AX	N	NA	87.4	44	60.2	CO	Y	M00
198	BL	SD	Y	AN	2	DF	SN	Y	1,4	72.8	44.7	42.3	PR	Y	M
199	FL	SD	Y	FL	3	PR	NM	Y	1	32.9	40	12.7	CO	Y	M
200	BL	SD	Y	CR	4	DF	IN(RT)	Y	1	40.4	22	7.3	CO	Y	M02
201	FL	SD	Y	AN	1	DF	IN(RT)	Y	1,2,4	31.6	36.8	10.1	CO	Y	M
202	FL	CNP	N	NA	1	NA	OP	Y	1	32.4	43.2	13.4	DS	Y	M01
203	FL	SD	Y	FL	3	DF	AX	Y	4	28.7	23.4	3.8	CO	Y	M01
204	FL	NC	N	NA	2	NA	AX	Y	1	48	35.4	25.5	DS	Y	M00

205	FL	SD	Y	FL	1	DF	HG	Y	1,4	38.2	35.9	16	PR	Y	M
206	FL	SD	Y	AN	1	PR	SN	Y	1	17.2	24.9	2.5	PR	N	M
207	FL	CNP	N	NA	1	NA	AX	Y	1	27.4	41.2	15.5	DS	N	M01
208	FL	SD	Y	AN	2	PR	SN	Y	4	15.3	27.8	2.6	PR	N	M01
209	FL	NC	N	NA	3	NA	AX	Y	1	30.7	15.5	3.7	DS	N	M01
210	FL	SD	Y	AN	4	DF	AX	Y	2	33.2	19.3	4.2	CO	N	M00
211	FL	SD	Y	CR	2	DF	AX	Y	1	21.7	26.1	3.2	CO	Y	M00
212	FL	CNP	N	NA	5	NA	AX	N	NA	16.8	25.7	1.9	DS	Y	M01
213	FL	SD	Y	RD	1	PR	SN	Y	1,4	47.2	27.2	10.6	PR	Y	M00
214	BL	NC	N	NA	0	NA	AX	Y	1,4	44.1	16.9	7	DS	Y	M01
215	BL	TD	Y	AN	0	DF	SN	Y	1,3,4	49.1	25.2	14.2	PR	Y	M
216	BL	TD	Y	AN	0	PR	SN	Y	1,4	53	28.9	11.6	PR	Y	M
217	BL	NC	N	NA	0	NA	AX	Y	1,2,4	48.3	30.6	17.5	DS	Y	M
218	FL	NC	N	NA	0	NA	HG	Y	1	40.7	27.1	7.7	DS	Y	M00
219	FL	NC	N	NA	0	NA	OP	Y	1,4	46.4	32.5	20.6	MD	N	M02
220	FL	TD	Y	AN	0	PR	NM	Y	1	46.3	61.4	53.8	PR	Y	M
221	BL	NC	N	NA	0	NA	AX	Y	2,3	38.4	12.4	3.6	DS	Y	M
222	BL	NC	N	NA	0	NA	AX	Y	1	29	16.9	5	DS	Y	M
223	BL	TD	Y	AN	0	PR	AX	Y	2,3,4	93.5	27.2	28.9	CO	Y	M02
224	BL	NC	N	NA	0	NA	AX	Y	1	47.8	15.2	6.6	DS	Y	M01
225	FL	SD	Y	FL	1	DF	OP	Y	1,3,4	48.5	29.6	11.4	PR	Y	M
226	BL	SD	Y	AN	1	DF	HG	Y	1,4	30.4	20.4	6.2	PR	Y	M01
227	FL	TD	Y	RD	0	PR	IN(RT)	Y	1,4	30.9	45.5	11.3	CO	Y	M01
228	FL	PD	Y	AN	5	DF	AX	N	2	52.8	40.5	37.5	CO	N	M
229	FL	SD	Y	FL	2	DF	OP	Y	1,3,4	53.1	31.5	14.3	CO	Y	M
230	BL	SD	Y	FL	4	PR	HG	Y	1,3	28.2	25.2	8.4	PR	Y	M02
231	FL	SD	Y	FL	4	PR	NM,SN	Y	3	24	39.1	13.9	CO	Y	M00
232	FL	PD	Y	FL	5	DF	SN	N	NA	29.3	37.5	9.1	PR	N	M
233	FL	SD	Y	FL	1	FO	AX	Y	1,4	28	27.8	5.8	CO	Y	M01
234	FL	CNP	N	NA	5	NA	NM	N	NA	22.4	35.7	4.3	DS	Y	M02
235	FL	CNP	N	NA	2	NA	HG	Y	1	22.3	29.5	6.3	DS	Y	M02
236	FL	PD	Y	AN	5	DF	SN	Y	4	29.3	19.9	2.2	PR	Y	M02
237	FL	CNP	N	NA	4	NA	AX	Y	1	23.8	24.4	4.1	DS	Y	M
238	FL	CNP	N	NA	1	NA	AX	Y	1	51.3	26.7	10.9	DS	Y	M02
239	BL	CNP	N	NA	3	NA	AX	Y	1,4	20.5	11.9	1.1	DS	Y	M
240	FL	SD	Y	FL	4	DF	HG	Y	3	23	26.9	3.4	CO	N	M01
241	FL	CNP	N	NA	2	NA	AX	Y	1,4	29.2	22.8	7.3	DS	Y	M01
242	FL	SD	Y	RD	1	DF	HG	Y	2	28.7	16.6	1.9	PR	Y	M01
243	FL	SD	Y	FL	2	DF	SN	Y	1	31.3	21.2	9.4	PR	Y	M01
244	BL	CNP	N	NA	2	NA	AX	Y	1	31	15.7	3.1	DS	Y	M
245	FL	SD	Y	AN	4	PR	SN	Y	4	28.4	28.3	4.2	PR	Y	M01
246	FL	SD	Y	FL	4	DF	SN	Y	1	24.2	23.1	3.9	PR	Y	M02
247	FL	CNP	N	NA	2	NA	IN(RT)	Y	1,4	62.4	28.3	18	MD	Y	M01
248	FL	SD	Y	AN	2	PR	IN(RT)	Y	4	29.4	23.4	3.7	PR	N	M00
249	FL	SD	Y	AN	4	DF	HG	Y	1	18	18.2	1.7	PR	N	M02
250	FL	CNP	N	NA	5	NA	AX	N	NA	21.1	20.5	2.1	DS	Y	M02
251	BL	CNP	N	NA	3	NA	AX	Y	1	23.2	13.8	2.2	DS	N	M00
252	FL	SD	Y	AN	4	DF	SN	N	NA	18.4	30.6	7.4	PR	N	M01
253	FL	NC	N	NA	5	NA	AX	N	NA	31	20.5	8.9	DS	N	M01
254	FL	NC	N	NA	5	NA	HG	N	NA	17.7	25.7	4	MD	Y	M01
255	FL	NC	N	NA	4	NA	AX	Y	1	20	18.6	2.3	DS	N	M01
256	FL	NC	N	NA	4	NA	SN	Y	1	14.2	22.3	1.7	MD	Y	M
257	FL	SH	N		5	NA				.	.	6.4	CO	N	M02
258	FL	PD	Y	AN	5	FO	AX	N	NA	26.6	12.8	2.4	CO	N	M01
259	BL	PD	Y	AN	5	DF	AX	N	NA	35.2	17.4	4.2	CO	Y	M
260	FL	CNP	N	NA	5	NA	AX	N	NA	19.3	24.3	4	DS	N	M01
261	FL	CNP	N	NA	4	NA	AX	Y	1	16.7	16.6	1.7	DS	Y	M
262	FL	SD	Y	AN	4	DF	HG	Y	1,4	20.1	17	2.8	CO	N	M02
263	BL	CNP	N	NA	2	NA	AX	Y	1	11.8	13.6	0.8	DS	Y	M00
264	FL	CNP	N	NA	4	NA	AX	Y	2	25.2	13.8	1.6	DS	Y	M
265	FL	CNP	N	NA	2	NA	AX	Y	1,2	19.8	19.2	2.2	DS	N	M
266	FL	CNP	N	NA	4	NA	AX	Y	1	15.1	19.4	1.5	DS	Y	M
267	FL	CNP	N	NA	4	NA	SN	Y	3	10.4	28.6	1.6	MD	Y	M02
268	FL	SD	Y	AN	1	DF	NM	Y	1,4	43	43.6	22	CO	Y	M00
269	BL	NC	N	NA	0	NA	HG,NM	Y	1,4	59.3	37.7	38.5	DS	Y	M01
270	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,3	35.6	69.3	28.2	CO	Y	M01
271	BL	TD	Y	CR	0	PR	OP	Y	1,4	40.8	27	11	CO	Y	M01
272	BL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	34	22.6	4.9	CO	Y	M
273	FL	CNP	N	NA	2	NA	HG	Y	1	32.7	21.8	4.6	DS	Y	M00
274	FL	TD	Y	FL	0	PR	HG	Y	1,3,4	49.3	28.6	10.5	CO	Y	M02
275	FL	NC	N	NA	0	NA	HG	Y	1,3	26.4	30.8	7.8	DS	Y	M01
276	FL	CNP	N	NA	1	NA	IN(RT)	Y	2,3	38.5	30.9	7	DS	Y	
277	BL	CNP	N	NA	1	NA	AX	Y	1	27.1	22	4.9	DS	Y	M01
278	FL	TD	Y	AN	0	PR	SN	Y	1,4	26	34.8	24.8	PR	Y	M00
279	FL	TD	Y	FL	0	PR	HG,NM	Y	1,3	25.2	24.9	2.9	CO	N	
280	FL	TD	Y	AN	0	DF	NM	Y	1,2,3,4	28.9	18.8	4.2	CO	Y	M00
281	FL	NC	N	NA	0	NA	AX	Y	1	18.8	20.3	2.8	DS	N	M01
281	FL	SD	Y	AN	1	PR	NM,SN	Y	1,4	34.1	33.7	8.3	CO	Y	M02
282	BL	TD	Y	FL	0	DF	AX	Y	1,2	50.4	27.1	24.6	CO	N	M01
283	FL	NC	N	NA	0	NA	HG	Y	1	23.6	27.9	3.3	DS	N(FN)	M00
284	FL	NC	N	NA	0	NA	HG,NM	Y	1	21	21.7	5.2	DS	Y	M02
285	FL	TD	Y	AN	0	DF	NM	Y	1	34.9	26.8	7.9	CO	Y	M01
286	FL	SD	Y	AN	1	PR	AX	Y	1	42.2	24.7	7.8	CO	N	M01
287	FL	TD	Y	AN	0	DF	HG	Y	1,4	31.8	18.7	3.3	CO	Y	M
288	FL	NC	N	NA	0	NA	NM	Y	3	17.5	28	3.5	DS	N	M01

289	FL	TD	Y	AN	0	PR	SN	Y	2,3	23.2	18.6	3.6	PR	Y	M
290	FL	NC	N	NA	0	NA	AX	Y	1,4	17.5	23.6	4.3	DS	Y	M02
291	FL	TD	Y	AN	0	PR	SN	Y	3,4	17.7	25.7	3.3	PR	Y	M
292	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	26	25.4	3.5	CO	Y	M01
293	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,3	27.6	34.7	4.1	CO	Y	M01
294	BL	NC	N	NA	0	NA	OP	Y	2,3	29.8	23.6	10.5	DS	Y	M
295	FL	CNP	N	NA	1	NA	AX	Y	1,4	20.1	21.8	1.9	DS	N(FN)	M00
296	FL	CNP	N	NA	1	NA	HG	Y	1,4	25.2	20	2.7	DS	N	M00
297	FL	CNP	N	NA	1	NA	AX	Y	1,4	19.2	21.5	3.4	DS	Y	M0
298	FL	TD	Y	AN	0	PR	SN	Y	1	29.9	25.2	5.8	PR	Y	M00
299	BL	NC	N	NA	0	NA	AX	Y	2,3	33.7	22.1	8.4	DS	Y	M01
300	FL	SD	Y	FL	1	DF	NM	Y	1	17.5	31.1	2.6	PR	N	M01
301	FL	TD	Y	FL	0	DF	IN(RT)	Y	1,2	20.4	25.1	2.2	CO	Y	M01
302	FL	SH	N		0	NA						4.3	DS	Y	M02
303	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	14.7	26.1	2	CO	Y	M01
304	FL	SD	Y	FL	1	DF	NM	Y	1,3,4	19.4	27.3	6.3	CO	N	M01
305	BL	TD	Y	AN	0	PR	SN	Y	1	23.9	13.9	2.3	PR	Y	M01
306	FL	CNP	N	NA	1	NA	HG	Y	1	19.7	11.3	1.9	DS	N(FN)	M00
307	FL	SD	Y	AN	1	DF	NM	Y	4	18.3	28.7	5.6	CO	Y	M02
308	FL	SD	Y	FL	1	PR	SN	Y	1,3,4	22.7	28.9	4.3	PR	Y	M00
309	FL	TD	Y	AN	0	DF	OP	Y	1,2,4	30.8	18	3.9	CO	Y	M01
310	FL	SD	Y	AN	1	DF	IN(RT)	Y	1,3	17	27.8	3.8	CO	N	M02
311	FL	TD	Y	CR	0	DF	NM	Y	2,3,4	33.3	44.4	13.8	CO	Y	M01
312	FL	CNP	N	NA	2	NA	NM	Y	IN	36.4	17.4	7.4	DS	Y	M
313	FL	CNP	N	NA	2	NA	AX	Y	1,2	30.3	26.7	7.3	DS	Y	M02
314	BL	CNP	N	NA	1	NA	SN	Y	1,4	12.7	25.2	2.7	MD	Y	M01
315	FL	NC	N	NA	0	NA	NM	Y	1	14.9	21.9	3.2	DS	Y	M01
316	FL	SD	Y	AN	1	PR	NM	Y	1	21.4	26.1	5.3	PR	N	M01
317	FL	TD	Y	AN	1	DF	HG	Y	4	19.4	27.4	3.1	PR	N	M00
318	FL	SD	Y	AN	1	DF	SN	Y	1	12.8	37.2	4.5	PR	N(FN)	M01
319	FL	CNP	N	NA	2	NA	NM	Y	2	24.5	21	3.9	DS	N	M00
320	BL	NC	N	NA	0	NA	NM	Y	1	27.9	10.3	2.5	DS	Y	M01
321	FL	SD	Y	AN	3	PR	NM	Y	1	19.8	12.8	1.5	CO	Y	M01
321	FL	CNP	N	NA	3	NA	AX	Y	1	18.9	17	1.9	DS	N	M
322	FL	NC	N	NA	0	NA	SN	Y	IN	36.5	24	8.3	DS	Y	M00
323	FL	CNP	N	NA	1	NA	HG	Y	4	17.7	35.5	4.3	DS	N	M00
324	FL	CNP	N	NA	1	NA	NM	Y	1	40.2	29.2	17.7	DS	Y	M01
325	FL	CNP	N	NA	2	NA	NM	Y	2	16.5	21.7	2.2	DS	Y	M01
326	FL	SD	Y	FL	2	PR	AX	Y	4	26.7	11.6	2.8	CO	Y	M00
327	BL	SD	Y	AN	1	DF	SN	Y	1,4	30.5	24.6	5.7	PR	Y	M01
328	BL	TD	Y	AN	0	PR	SN	Y	1,4	32.7	29.6	11	PR	Y	M01
329	BL	TD	Y	FL	0	DF	SN	Y	1	56.7	27.3	12.7	PR	Y	M
330	BL	TD	Y	AN	0	PR	HG	Y	1,4	45	23.6	5.3	PR	Y	M01
331	BL	TD	Y	AN	0	DF	HG,SN	Y	1,2,4	23	15.9	2.2	PR	Y	M
332	BL	TD	Y	AN	0	DF	SN	Y	1,4	34	18.4	3.1	PR	Y	M01
333	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	30.7	13.3	2.1	PR	N	M
334	BL	TD	Y	AN	0	PR	SN	Y	1,4	47.1	22.1	7.6	PR	N	M01
335	BL	TD	Y	AN	0	PR	HG	Y	1,4	24.8	12.4	2.5	PR	Y	M
336	BL	TD	Y	CR	0	DF	NM	Y	1,4	27.5	10	1.2	CO	N	M00
337	BL	TD	Y	AN	0	PR	SN	Y	1,4	24.8	18.4	4.1	PR	Y	M00
338	BL	TD	Y	FL	0	PR	AX	Y	1,4	29.3	10.4	1.2	CO	Y	M01
339	BL	NC	N	NA	0	NA	AX	Y	1,4	18.8	11.4	1	DS	Y	M01
340	BL	TD	Y	AN	0	PR	SN	Y	1,4	19.4	18.7	2.1	PR	Y	M01
341	BL	TD	Y	AN	0	PR	SN	Y	1,4	42.3	25.8	8.1	PR	Y	M01
342	BL	TD	Y	AN	0	PR	SN	Y	1,4	29.8	16.9	3.7	PR	Y	M01
343	BL	TD	Y	AN	0	FO	HG	Y	1	25.7	8.3	1.2	PR	Y	M
344	BL	CNP	N	NA	1	NA	OP	Y	1,4	48.5	25.7	13.6	DS	Y	M
345	BL	TD	Y	FL	0	PR	HG	Y	1,4	38.3	18.4	4.2	PR	Y	M
346	BL	NC	N	NA	0	NA	HG	Y	1,4	21.2	11.9	1.4	DS	Y	M01
347	BL	TD	Y	AN	0	PR	SN	Y	1,2,4	39	21.1	9.4	PR	Y	M02
348	BL	TD	Y	FL	0	PR	HG	Y	1,4	44.4	22	5.7	PR	Y	M02
349	BL	TD	Y	AN	1	PR	HG	Y	1,4	24.7	13.5	1.8	PR	Y	M01
350	BL	TD	Y	AN	0	DF	SN	Y	1,4	47.5	20.7	7.2	PR	Y	M
351	BL	NC	N	NA	0	NA	AX	Y	1,3,4	28.6	22.3	9.2	DS	Y	M
352	FL	TD	Y	AN	0	PR	SN	Y	1,2,4	19.2	17.4	2.1	PR	Y	M
353	BL	CNP	N	NA	4	NA	NM	N	NA	67.7	24.1	15.7	DS	Y	M
354	FL	SD	Y	FL	1	PR	SN	Y	1,4	39.7	40.1	13.4	CO	Y	M00
355	FL	TD	Y	FL	0	PR	HG	Y	1,2,3	17.2	20.1	2.8	CO	Y	M01
356	FL	SD	Y	AN	1	PR	OP	Y	1,2	30.6	26.1	4.1	CO	N	M02
357	FL	NC	N	NA	0	NA	AX	Y	1,2	35.2	24.2	5.8	DS	Y	M
358	BL	NC	N	NA	0	NA	AX	Y	2	40.1	16.4	4.9	DS	Y	M00
359	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,2	25.9	29.7	3.9	PR	N(FN)	M
360	FL	SD	Y	CTX	4	PR	SN	Y	1	36.3	36.6	11.1	PR	Y	M01
361	FL	TD	Y	CR	0	PR	IN(FN)	Y	1,4	25.2	21.3	1.7	CO	Y	M02
362	FL	TD	Y	AN	0	PR	SN	Y	1,4	22.7	16.3	1.7	PR	Y	M00
363	FL	SD	Y	CTX	1	DF	SN,HG	Y	1,4	39.7	21.5	3.3	PR	Y	M02
364	FL	TD	Y	AN	0	PR	SN	Y	1,4	22.4	24.4	2.5	PR	N	M00
365	FL	TD	Y	AN	0	PR	SN	Y	1,4	23.6	22	4.4	PR	Y	M
366	FL	CNP	N	NA	4	NA	OP	Y	2,3	43	24.9	13.6	DS	Y	M01
367	FL	TD	Y	AN	0	FO	SN	Y	1,4	22.8	31.1	4.7	PR	N	M02
368	FL	CNP	N	NA	1	NA	AX	Y	1,4	20.1	27.1	4.5	DS	N	M01
369	FL	NC	N	NA	0	NA	HG	Y	1,3	26.9	44.8	9.9	DS	N	M02
370	FL	PD	Y	CTX	4	DF	ST	N	NA	24.1	40.8	13.6	CO	N	M02
371	FL	CNP	N	NA	5	NA	AX	N	NA	24.1	21.2	5.2	DS	N	M01
372	FL	SD	Y	CR	1	FO	SN	Y	1	16.5	32.6	6	PR	Y	M02

373	FL	CNP	N	NA	5	NA	AX	N	NA	14.5	29.1	5.2	DS	Y	M00
374	FL	SD	Y	AN	1	DF	AX,HG	Y	1	59.5	81.5	69.8	CO	Y	M00
375	FL	TD	Y	AN	0	DF	SN	Y	1,2	62.4	34.5	25	PR	Y	M01
376	BL	TD	Y	FL	0	PR	HG	Y	4	38.2	17.5	3.9	CO	Y	M
377	FL	TD	Y	FL	0	PR	HG	Y	1,4	58.6	24.8	9.7	CO	Y	M01
378	BL	NC	N	NA	0	NA	AX	Y	1,4	41	19.3	7.1	DS	Y	M01
379	BL	SD	Y	AN	1	PR	AX	Y	4	35.2	24.3	8.1	PR	Y	M02
380	FL	SD	Y	FL	1	DF	SN	Y	1	47.7	42.1	19.9	PR	Y	M01
381	BL	SD	Y	FL	1	PR	HG,SN	Y	1,2,4	69.7	30.6	25.7	PR	N	M
382	FL	SD	Y	AN	1	PR	NM	Y	1,2,4	21	18.1	1.9	CO	Y	M
383	BL	CNP	N	NA	1	NA	AX	Y	1	20.7	12.1	1.4	DS	Y	M01
384	FL	NC	N	NA	0	NA	ST	Y	1	38.3	45.2	16	MD	N	M01
385	BL	CNP	N	NA	3	NA	AX	Y	2,4	56.2	44.3	28.9	DS	Y	M
386	FL	SD	Y	AN	1	DF	AX	Y	1	63.4	33.8	30	PR	Y	M01
387	FL	TD	Y	FL	0	DF	IN(RT)	Y	2,3,4	54.8	27.2	33.1	CO	Y	M01
388	FL	TD	Y	RD	1	PR	IN(RT)	Y	1,4	33.4	29.2	7.9	PR	Y	M
389	FL	TD	Y	FL	0	PR	IN(RT)	Y	1	39.9	36.8	14.1	PR	Y	M00
390	FL	TD	Y	CR	0	PR	SN	Y	1,4	38.7	37.3	15.7	PR	Y	M
391	BL	SD	Y	FL	1	DF	OP	Y	1	40.9	21.2	5.3	CO	Y	M01
392	BL	NC	N	NA	0	NA	HG	Y	1	37.5	19.3	5.2	DS	Y	M02
393	BL	CNP	N	NA	2	NA	AX	Y	1	48.1	24.2	7.5	DS	Y	M
394	BL	NC	N	NA	0	NA	AX	Y	1	31.1	16.2	2.8	DS	Y	M01
395	BL	NC	N	NA	0	NA	AX	Y	1	47.8	30.3	24	DS	Y	M00
396	BL	NC	N	NA	0	NA	AX	Y	2	45.1	22	7.2	DS	Y	M01
397	BL	NC	N	NA	0	NA	AX	Y	1	33.4	19.6	3.2	DS	Y	M02
398	BL	NC	N	NA	0	NA	AX	Y	1	20.1	12.1	1.3	DS	N	M02
399	BL	TD	Y	AN	0	PR	ST	Y	1,4	25.8	12.7	1.4	PR	Y	M01
400	BL	NC	N	NA	0	NA	AX	Y	1	17.2	12.7	1.4	DS	Y	M02
401	BL	TD	Y	FL	0	PR	SN	Y	1,4	49.6	29.7	8.8	PR	Y	M01
402	BL	NC	N	NA	0	NA	HG	Y	1,4	38	19.6	4.3	DS	Y	M01
403	BL	CNP	N	NA	1	NA	OP	Y	1	42.6	31.8	14.3	DS	Y	M00
404	FL	NC	N	NA	0	NA	OP	Y	1	33.8	23.5	6.6	DS	Y	M
405	BL	SD	Y	CR	1	DF	SN	Y	1,4	30.2	27	5.2	PR	Y	M02
406	BL	CNP	N	NA	1	NA	OP	Y	1,4	26.2	15.2	1.9	DS	Y	M00
407	BL	CNP	N	NA	1	NA	ST	Y	1,4	33.2	16.2	3.2	DS	Y	M01
408	FL	CNP	N	NA	1	NA	AX	Y	1,4	37.5	26	9.2	DS	Y	M
409	BL	NC	N	NA	0	NA	AX	Y	1	29.2	18	2.2	DS	Y	M00
410	BL	NC	N	NA	0	NA	AX	Y	1	34.8	17.3	3.6	DS	Y	M00
411	BL	NC	N	NA	0	NA	AX	Y	1,4	36.9	24.9	11.2	DS	Y	M
412	BL	SD	Y	AN	1	DF	SN	Y	4	24.2	18.2	2.7	PR	Y	M01
413	BL	CNP	N	NA	2	NA	AX	Y	1	21.3	11.7	1.3	DS	Y	M00
414	BL	CNP	N	NA	1	NA	HG	Y	1,4	39	28.2	14.7	DS	Y	M02
415	BL	TD	Y	FL	0	DF	SN	Y	1,4	26.8	16.2	2.3	PR	Y	M01
416	BL	CNP	N	NA	3	NA	AX	Y	1	29.6	12.6	3.1	DS	Y	M01
417	BL	NC	N	NA	0	NA	HG	Y	1,4	27.3	13	1.7	MD	Y	M00
418	BL	NC	N	NA	0	NA	AX	Y	1,4	26.7	20.2	2.7	DS	Y	M01
419	FL	TD	Y	FL	0	PR	SN	Y	2,3	28	16.7	4	PR	Y	M01
420	BL	NC	N	NA	0	NA	AX	Y	1	42.3	17.1	4.4	DS	Y	M
421	BL	NC	N	NA	0	NA	AX	Y	1,4	30.6	13.5	1.5	DS	N	M02
422	BL	NC	N	NA	0	NA	OP	Y	1,4	20.4	15	1.6	DS	Y	M01
423	FL	NC	N	NA	0	NA	AX	Y	1,2	32.3	17.7	4.9	DS	Y	M
424	BL	NC	N	NA	0	NA	IN(RT)	Y	1	27.1	17	2.1	DS	Y	M02
425	FL	SD	Y	FL	1	DF	AX	Y	2,3	17.8	30	4.2	CO	Y	M01
426	BL	NC	N	NA	0	NA	AX	Y	1	42.2	15.9	4.2	DS	Y	M01
427	FL	TD	Y	AN	0	PR	SN	Y	1,4	35.7	28.3	8	PR	Y	M
428	BL	NC	N	NA	0	NA	AX	Y	1,4	28.5	26.8	7.7	MD	Y	M
429	FL	NC	N	NA	0	NA	AX	Y	1,4	28.9	18.7	2.9	DS	Y	M00
430	BL	NC	N	NA	0	NA	AX	Y	1,4	31.4	26.1	11.6	DS	Y	M
431	FL	TD	Y	AN	0	PR	SN	Y	1,4	20.3	24.2	4.9	PR	Y	M01
432	BL	NC	N	NA	0	NA	AX	Y	1	36.2	23.6	8	DS	N(FN)	M
433	BL	TD	Y	AN	0	PR	SN	Y	1,4	23.6	23	3.6	PR	Y	M
434	BL	NC	N	NA	0	NA	SN	Y	1,4	31	14.3	3	MD	Y	M01
435	BL	CNP	N	NA	1	NA	OP	Y	1	35.9	22	6.4	MD	Y	M01
436	BL	TD	Y	RD	0	NA	HG	Y	3,4	28.4	20.4	4.9	PR	Y	M
437	BL	NC	N	NA	0	NA	AX	Y	1	24.3	17.1	2.7	DS	Y	M01
438	BL	NC	N	NA	0	NA	HG	Y	1,4	20.9	14.8	1.4	MD	Y	M
439	BL	CNP	N	NA	1	NA	AX	Y	1,4	27.4	14.4	2.6	DS	Y	M02
440	BL	NC	N	NA	0	NA	AX	Y	1	21.7	14	1.6	DS	Y	M02
441	BL	NC	N	NA	0	NA	NM	Y	1,4	28.9	12.3	3	DS	Y	M00
442	BL	TD	Y	FL	0	DF	AX	Y	1,4	33.6	19.7	4.6	CO	Y	M01
443	BL	TD	Y	AN	0	PR	SN	Y	1,4	23.1	18.7	2.7	PR	Y	M02
444	BL	CNP	N	NA	1	NA	AX	Y	1	21.3	15.7	2.3	DS	Y	M02
445	BL	CNP	N	NA	1	NA	AX	Y	1,2	47.8	26.5	11.6	DS	Y	M
446	BL	CNP	N	NA	1	NA	AX	Y	1,4	23.3	15.9	2.1	DS	Y	M02
447	BL	NC	N	NA	0	NA	AX	Y	1,4	46.5	30	10.4	DS	Y	M01
448	BL	TD	Y	AN	0	PR	HG	Y	1,4	31.5	37.4	9.4	PR	N	M
449	BL	TD	Y	FL	0	DF	ST	Y	1,4	27.4	27.4	7	PR	Y	M
450	BL	TD	Y	FL	0	PR	ST	Y	1,4	34.5	15	3.5	PR	Y	M01
451	BL	CNP	N	NA	1	NA	AX	Y	1,3,4	23.7	14.9	2.2	DS	Y	M02
452	BL	NC	N	NA	0	NA	SN	Y	1,4	32	14.6	3.3	MD	Y	M02
453	BL	NC	N	NA	0	NA	HG	Y	1,4	38.3	18	6.7	MD	Y	M01
454	BL	NC	N	NA	0	NA	SN	Y	1,4	33.5	13.8	1.8	MD	Y	M02
455	BL	NC	N	NA	0	NA	AX	Y	1,4	37	16.4	2.9	DS	Y	M
456	BL	NC	N	NA	0	NA	AX	Y	1	34.9	23.6	6.4	DS	Y	M
457	BL	NC	N	NA	0	NA	AX	Y	1	30.4	18.5	2.9	DS	Y	M

458	BL	TD	Y	AN	0	DF	AX	Y	1,4	38.3	17.4	5	CO	Y	M
459	BL	TD	Y	FL	0	PR	AX	Y	1,3,4	28.9	16.5	3.5	CO	Y	M
460	BL	NC	N	NA	0	NA	AX	Y	1,4	27.2	24.4	8.1	DS	Y	M
461	BL	CNP	N	NA	1	NA	AX	Y	1	23.3	17.6	2.4	DS	Y	M01
462	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	37.2	13.7	2.2	DS	Y	M
463	BL	NC	N	NA	0	NA	AX	Y	1	24	12.1	1.2	DS	Y	M
464	BL	NC	N	NA	0	NA	AX	Y	1	21.3	17.9	3	DS	Y	M
465	BL	NC	N	NA	0	NA	SN	Y	2,3	23.6	23.5	2.9	MD	Y	M
466	BL	NC	N	NA	0	NA	AX	Y	1,4	25.8	15.1	2.2	DS	Y	M01
467	BL	NC	N	NA	0	NA	AX	Y	1,4	20.3	15.3	1.6	DS	Y	M
468	BL	TD	Y	CR	0	DF	ST	Y	1,4	20.8	17.5	2.3	PR	Y	M
469	FL	TD	Y	AN	0	DF	HG	Y	1,4	21.6	25.7	3.1	PR	N	M
470	BL	NC	N	NA	0	NA	AX	Y	1,4	23.2	12.2	1.7	DS	Y	M
471	BL	CNP	N	NA	1	NA	ST	Y	1,4	22.4	14	2	MD	N	M01
472	BL	NC	N	NA	0	NA	AX	Y	1,2,4	32.1	14.4	3.4	DS	Y	M01
473	BL	CNP	N	NA	1	NA	AX	Y	1,4	29.7	11.2	2.3	DS	Y	M01
474	BL	NC	N	NA	0	NA	HG	Y	1,4	20.4	14.4	1.2	MD	Y	M
475	BL	NC	N	NA	0	NA	AX	Y	1,4	28.8	18.3	2.3	DS	N	M01
476	BL	NC	N	NA	0	NA	IN	Y	1	21.6	27.1	4	DS	Y	M02
477	BL	TD	Y	FL	0	PR	ST	Y	1	23.7	13.5	3.4	PR	Y	M01
478	BL	NC	N	NA	0	NA	AX	Y	1,4	27.2	10.7	1.3	DS	Y	M
479	BL	NC	N	NA	0	NA	ST	Y	1,4	24.1	12.1	1	MD	Y	M01
480	BL	TD	Y	CR	0	DF	AX	Y	1,3	32	19.5	4.1	CO	Y	M01
481	FL	SD	Y	AN	1	DF	HG,ST	Y	1,4	41	36.7	15.5	CO	Y	M01
482	FL	TD	Y	CR	0	DF	HG	Y	IN	39.5	36.6	8.1	CO	Y	M
483	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,3	27.4	43.9	10.2	PR	Y	M02
484	BL	SD	Y	FL	1	PR	OP	Y	1,4	55.5	34.1	25.9	PR	Y	M02
485	BL	TD	Y	AN	0	DF	OP	Y	1,2,4	54.2	31.8	23.4	PR	Y	M02
486	FL	NC	N	NA	0	NA	IN(RT)	Y	1	29.7	44.4	10	DS	Y	M
487	FL	SD	Y	RD	1	PR	IN(RT)	Y	1,2,3	50.6	47.3	34.4	CO	Y	M
488	FL	SD	Y	AN	1	PR	IN(RT)	Y	1,4	47	43	18	CO	Y	M01
489	FL	NC	N	NA	0	PR	ST	Y	1,4	39.4	35.3	15.7	DS	Y	M00
490	FL	TD	Y	RD	0	PR	HG	Y	1,4	58.8	38.2	31.5	CO	Y	M00
491	FL	NC	N	NA	0	NA	AX	Y	1,2,4	33.4	26.9	6.7	DS	Y	M01
492	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	36.4	26.1	5.6	PR	Y	M01
493	BL	NC	N	NA	0	NA	AX	Y	1	17.7	11.8	1	DS	Y	M01
494	FL	TD	Y	FL	0	DF	ST	Y	1	18.9	21	3.3	PR	N(FN)	M00
495	BL	NC	N	NA	0	NA	AX	Y	1	15.8	22.6	2.7	DS	Y	M
496	BL	NC	N	NA	0	NA	AX	Y	1	21.5	17.1	3	DS	Y	M
497	FL	CNP	N	NA	1	NA	IN(RT)	Y	3	24.7	19.7	3.1	DS	Y	M01
498	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	33.9	21.2	4.5	DS	Y	M01
499	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	29.5	35.1	6.5	DS	Y	M
500	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	21.6	14.5	1.7	DS	Y	M01
501	FL	NC	N	NA	0	NA	NM	Y	1	26.5	13.1	1.4	DS	Y	M02
502	BL	TD	Y	AN	0	PR	AX	Y	1	21.9	15	2	CO	Y	M01
503	BL	NC	N	NA	0	NA	AX	Y	1	20.5	13	1.5	DS	N(FN)	M00
504	BL	NC	N	NA	0	NA	SN	Y	1,4	9.3	9.6	1.1	MD	Y	M01
505	BL	NC	N	NA	0	NA	OP	Y	1,4	20.6	13.8	1.5	DS	N	M
506	BL	CNP	N	NA	2	NA	SN	Y	1,4	16	20.8	2.3	DS	Y	M00
507	BL	NC	N	NA	0	NA	HG	Y	1	19	13.1	1.3	MD	Y	M02
508	BL	NC	N	NA	0	NA	AX	Y	1	21.2	14.2	1.9	DS	N	M01
509	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	21.4	13.4	1	DS	N(FN)	M
510	FL	NC	N	NA	0	NA	AX	Y	1,2	18.6	12.4	0.9	DS	N	M02
511	FL	NC	N	NA	0	NA	NM	Y	1,4	26.2	13.6	1.9	DS	Y	M01
512	BL	NC	N	NA	0	NA	AX	Y	1	21.6	15.8	1.9	DS	Y	M00
513	FL	CNP	N	NA	1	NA	AX	Y	1,4	24.3	16.7	2.2	DS	N(FN)	M01
514	BL	NC	N	NA	0	NA	AX	Y	1	22.4	13	1.5	DS	Y	M
515	FL	NC	N	NA	0	NA	NM	Y	1,4	22	10.6	0.9	DS	Y	M00
516	BL	CNP	N	NA	1	NA	AX	Y	1,3	25.9	12.2	2	DS	N	M01
517	BL	TD	Y	FL	0	FO	NM	Y	1,2	24.3	15.9	1.8	PR	Y	M
517	BL	NC	N	NA	0	NA	SN	Y	1,4	18.4	13.6	1.5	MD	Y	M01
518	BL	SD	Y	AN	1	DF	HG	Y	1,4	24.7	13.7	1.7	PR	Y	M01
519	BL	NC	N	NA	0	NA	AX	Y	1,3,4	23.8	14.4	2.7	DS	N	M01
520	BL	NC	N	NA	0	NA	AX	Y	1	18.5	14.5	1	DS	N	M02
521	BL	CNP	N	NA	1	NA	AX	Y	1,3	31.8	10	1.5	DS	Y	M01
522	FL	NC	N	NA	0	NA	AX	Y	1,2,3	25.9	16	2.9	DS	Y	M01
523	FL	NC	N	NA	0	NA	AX	Y	1	18.9	16	1.2	DS	N(FN)	M
524	BL	NC	N	NA	0	NA	AX	Y	1,2,3	31.5	11.5	2.5	DS	Y	M01
525	FL	TD	Y	FL	0	PR	HG	Y	1,4	20.3	15	1.3	PR	Y	M
526	FL	NC	N	NA	0	NA	IN(RT)	Y	1	18.2	17.3	1.2	DS	Y	M01
527	BL	NC	N	NA	0	NA	HG	Y	1	20.9	14.6	2	MD	Y	M01
528	FL	NC	N	NA	0	NA	AX	Y	1,4	19.7	10.4	1	DS	N	M
529	BL	NC	N	NA	0	NA	AX	Y	1	17.1	15	1	DS	N	M02
530	FL	NC	N	NA	0	NA	HG	Y	1,4	10.6	9.9	0.5	MD	Y	M01
531	BL	TD	Y	AN	0	DF	ST	Y	1,4	15	9.1	0.6	PR	Y	M
532	FL	TD	Y	AN	0	PR	ST	Y	4	16.9	14	1.3	PR	Y	M00
533	BL	NC	N	NA	0	NA	AX	Y	1,4	65.4	32.3	20.5	DS	Y	M01
534	FL	NC	N	NA	0	NA	SN	Y	1,4	12.9	19.3	1.3	MD	N(FN)	M01
535	BL	NC	N	NA	0	NA	AX	Y	1	16.9	10	1	DS	N(FN)	M02
536	BL	NC	N	NA	0	NA	AX	Y	1,4	24.4	18.2	1.8	DS	N(FN)	M
537	BL	NC	N	NA	0	NA	SN	Y	1,4	22.3	13	1.3	MD	N(FN)	M02
538	BL	NC	N	NA	0	NA	AX	Y	1	17.1	10.7	0.9	DS	N	M02
539	FL	NC	N	NA	0	NA	HG	Y	1,4	16.8	11.7	0.9	DS	Y	M01
540	FL	TD	Y	AN	0	NA	SN	Y	1,4	16.9	19.6	1.3	PR	Y	M00
541	BL	TD	Y	CR	0	PR	HG	Y	4	23.2	17.4	1.9	PR	N	M01

542	BL	NC	N	NA	0	NA	SN	Y	1	18.7	13.5	0.9	DS	Y	M01
543	BL	SD	Y	AN	1	PR	SN	Y	1,4	20.9	19.4	2.4	PR	Y	M
544	BL	SD	Y	AN	1	DF	IN(RT)	Y	1	21.8	16	3	PR	Y	M01
545	FL	TD	Y	AN	0	DF	SN	Y	3,4	11.6	18.2	1.1	PR	N	M
546	BL	NC	N	NA	0	NA	SN	Y	1,4	23.8	13.9	1.7	MD	Y	M01
547	BL	NC	N	NA	0	NA	AX	Y	1	21.4	7.7	1	DS	Y	M01
548	BL	NC	N	NA	0	NA	SN	Y	1,4	16.3	19.6	2.2	MD	Y	M00
549	BL	NC	N	NA	0	NA	SN	Y	1,4	11.6	14.9	0.7	MD	Y	M
550	FL	NC	N	NA	0	NA	AX	Y	1,4	22.7	23.9	3.1	DS	Y	M01
551	BL	NC	N	NA	0	NA	AX	Y	1	20.7	18	1.9	DS	N(FN)	M01
552	BL	NC	N	NA	0	NA	SN	Y	1,4	10.3	18.2	0.6	MD	Y	M01
553	BL	NC	N	NA	0	NA	SN	Y	1,4	13.2	9.9	0.4	MD	N	M02
554	FL	TD	Y	AN	0	PR	SN	Y	1	16.2	17.7	1.1	PR	N	M02
555	BL	SD	Y	AN	1	PR	SN	Y	1,4	20.4	10.5	0.6	PR	N	M01
556	BL	TD	Y	AN	0	DF	AX	Y	1	22.8	10.8	1.4	CO	Y	M01
557	BL	NC	N	NA	0	NA	HG	Y	1	13.4	14.8	1	MD	Y	M01
558	BL	NC	N	NA	0	NA	AX	Y	1,4	17.3	11.5	1	DS	N(FN)	
559	BL	NC	N	NA	0	NA	AX	Y	1,4	21.2	12.7	1.4	DS	N	M01
560	BL	NC	N	NA	0	NA	AX	Y	1,4	18.3	8.4	0.9	DS	Y	M
561	BL	NC	N	NA	0	NA	AX	Y	1,4	20.6	10.6	2	DS	Y	M02
562	BL	NC	N	NA	0	NA	AX	Y	1	27.6	10.5	1.5	DS	Y	M01
563	FL	TD	Y	AN	0	FO	SN	Y	1,4	20.6	24.6	2.6	PR	Y	M02
564	BL	NC	N	NA	0	NA	AX	Y	3,4	29.2	10.8	1.4	DS	Y	M02
565	BL	NC	N	NA	0	NA	AX	Y	1	12.4	10.4	0.6	DS	Y	M00
566	FL	TD	Y	FL	0	DF	SN	Y	1,4	26.5	19.7	4.2	PR	N	M00
567	FL	TD	Y	FL	0	DF	HG	Y	1,4	25.4	18.7	2.9	PR	Y	M
568	FL	NC	N	NA	0	NA	SN	Y	1,4	20.8	11.7	2.2	MD	N	M01
569	BL	NC	N	NA	0	NA	SN	Y	1,4	21.2	16.5	1.4	MD	N	M01
570	FL	TD	Y	AN	0	DF	HG	Y	1,4	17.9	24	2.4	PR	Y	M00
571	FL	TD	Y	FL	0	DF	AX	Y	1,2,4	28.7	16.5	3.4	CO	N(FN)	M02
572	FL	TD	Y	AN	0	DF	OP	Y	1,4	29.2	16.2	2.6	CO	Y	M
573	FL	TD	Y	AN	0	PR	IN(FN)	Y	1	21.2	23.6	1.6	CO	Y	M
574	BL	NC	N	NA	0	NA	AX	Y	1	18.5	18	2.8	DS	Y	M
575	FL	TD	Y	FL	0	PR	HG	Y	1	22.1	28.3	3.3	PR	N(FN)	M00
576	BL	TD	Y	AN	0	DF	SN	Y	1,4	38.4	25.5	7.4	PR	N	M00
577	BL	PD	Y	AN	5	PR	HG	N	NA	27.9	19	4.1	PR	N(FN)	M00
578	FL	TD	Y	AN	0	PR	SN	Y	1	21.8	15.7	2.1	PR	Y	M01
579	BL	TD	Y	FL	0	DF	IN(FN)	Y	1	20.6	20.5	1.3	PR	Y	M01
580	FL	TD	Y	FL	0	PR	SN	Y	1,4	21.5	22.1	2.1	PR	Y	M
581	FL	TD	Y	AN	0	DF	NM	Y	1,4	25	14.4	1.9	CO	Y	M
582	BL	NC	N	NA	0	NA	SN	Y	1	17.9	20.2	2	MD	N	M01
583	FL	TD	Y	FL	0	PR	HG	Y	1	23.8	28.1	3.7	PR	N	M01
584	BL	NC	N	NA	0	NA	SN	Y	1,4	8.2	11.5	0.6	MD	Y	M00
585	BL	NC	N	NA	0	NA	ST	Y	IN	13.1	15.9	1.3	MD	N	M
586	FL	NC	N	NA	0	NA	AX	Y	1,4	22.2	17.4	1.8	DS	Y	M
587	BL	NC	N	NA	0	NA	AX	Y	1,4	15.7	11.1	1.2	DS	Y	M01
588	BL	NC	N	NA	0	NA	SN	Y	4	12.6	12.1	0.8	MD	N	M02
589	BL	NC	N	NA	0	NA	HG,ST	Y	1,4	11.3	16.6	1.6	MD	Y	M
590	FL	SD	Y	FL	1	DF	HG,ST	Y	2,4	23.9	13.3	2	PR	Y	M
591	BL	NC	N	NA	0	NA	AX	Y	1,4	12.9	12.7	0.6	DS	N	M01
592	BL	NC	N	NA	0	NA	AX	Y	1,4	12	12.6	0.7	DS	N	M02
593	BL	NC	N	NA	0	NA	AX	Y	1	10.6	10.9	0.4	DS	N	M02
594	BL	TD	Y	AN	0	DF	AX	Y	1,3	14	9.8	0.9	PR	Y	M02
595	BL	TD	Y	AN	0	DF	NM	Y	1	19.3	10.6	0.7	CO	N(FN)	M
596	FL	TD	Y	FL	0	PR	OP	Y	1,2,4	53.6	49.4	27.6	PR	N	M01
597	BL	NC	N	NA	0	NA	SN	Y	1,4	10	10.3	0.3	MD	N	M02
598	FL	NC	N	NA	0	NA	AX	Y	1	20.1	15.5	1.9	DS	N	M
599	BL	NC	N	NA	0	NA	IN	Y	4	17.3	14.4	1.3	MD	Y	M
600	BL	TD	Y	FL	0	DF	HG	Y	1,4	21.6	9.3	1.4	PR	Y	M01
601	FL	CNP	N	NA	1	NA	AX	Y	1,3	25.6	22.1	4.9	DS	Y	M01
602	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,4	36.8	31.5	13	PR	Y	M01
603	FL	SD	Y	AN	1	DF	NM	Y	1,4	24.9	28.4	6.2	PR	Y	M00
604	FL	CNP	N	NA	1	NA	AX	Y	1	17	21.7	3.1	DS	N	M02
605	FL	TD	Y	AN	0	PR	SN	Y	2,3	25.4	26.4	4.6	PR	Y	M02
606	FL	TD	Y	FL	0	PR	IN(FN)	Y	1	23.9	32.3	3.2	PR	N(FN)	M
607	FL	SD	Y	FL	1	DF	HG	Y	1	19.3	28.2	4.6	PR	N	M01
608	BL	NC	N	NA	0	NA	IN(FN)	Y	1,3,4	25.8	25.1	5.4	DS	N	M00
609	FL	TD	Y	AN	0	FO	SN	Y	1,4	22	20.3	3.4	PR	N	M01
610	FL	CNP	N	NA	2	NA	AX	Y	1	18.8	19.7	5.5	DS	N	M01
611	FL	TD	Y	AN	0	DF	HG,SN,ST	Y	3	13.9	23.9	3.7	PR	N	M
612	FL	NC	N	NA	0	NA	AX	Y	1,2	20	27.1	3.5	DS	Y	M01
613	FL	TD	Y	AN	0	PR	SN	Y	1	22.4	33.3	4.5	PR	Y	M
614	BL	NC	N	NA	0	NA	AX	Y	1	31.5	25.8	7.8	DS	Y	M00
615	FL	CNP	N	NA	1	NA	AX	Y	1,4	18.2	23.5	2.5	DS	Y	M
616	FL	NC	N	NA	0	NA	HG	Y	4	24.2	32	2.6	DS	Y	M
617	FL	TD	Y	FL	0	FO	IN(RT)	Y	1,4	36.6	25	6.2	PR	Y	M00
618	FL	CNP	N	NA	1	NA	HG,SN	Y	1	28.3	31.2	5.8	DS	Y	M00
619	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,2	28.2	40.2	9.1	PR	N	M01
620	BL	TD	Y	AN	0	DF	AX	Y	1,4	23	18.6	2.5	CO	Y	M01
621	FL	TD	Y	AN	0	FO	ST	Y	1,4	16.4	20.9	2.7	PR	N	M01
622	FL	TD	Y	AN	0	PR	SN	Y	1,3,4	27.2	22.7	3.8	CO	Y	M02
623	FL	TD	Y	RD	0	PR	SN	Y	1	15.5	24.4	2	PR	N	M02
624	BL	TD	Y	RD	0	PR	AX	Y	1,4	78.1	35.4	45.3	CO	N	M02
625	FL	TD	Y	AN	0	PR	NM	Y	1,2	16.5	24.3	3.9	CO	Y	M01

626	FL	SD	Y	FL	1	PR	SN	Y	1,4	23.2	17.1	2	PR	Y	M01
627	FL	SD	Y	FL	1	DF	OP	Y	1	31.1	23.2	3.9	PR	Y	M01
628	FL	SD	Y	CTX	1	PR	SN	Y	1,4	27.8	19.4	2.5	PR	Y	M00
629	FL	SD	Y	AN	1	PR	IN(RT)	Y	1	24.5	23.4	2.5	PR	Y	M
630	BL	NC	N	NA	0	NA	SN	Y	1,3,4	50.1	39.7	15.8	DS	N	M01
631	BL	TD	Y	AN	0	DF	SN	Y	1	28.5	25.7	2.2	PR	N	M
632	FL	NC	N	NA	0	NA	NM	Y	4	18.7	16.3	1.5	DS	N	M00
633	FL	CNP	N	NA	2	NA	NM	Y	IN	20.2	22.5	3.1	DS	N	M
634	FL	CNP	N	NA	1	NA	SN	Y	1,4	15.2	26.1	4.5	DS	Y	M
635	FL	NC	N	NA	0	NA	NM	Y	1	17.2	13.6	1.7	DS	Y	M01
636	FL	NC	N	NA	0	NA	OP	Y	1,4	21.4	22.6	3.7	DS	N	M01
637	FL	NC	N	NA	0	NA	AX	Y	1	12.5	21.2	1.9	DS	Y	M00
638	FL	CNP	N	NA	1	NA	AX	Y	2,3	7.7	33.1	3.2	DS	Y	M
639	FL	TD	Y	FL	0	PR	IN(RT)	Y	1,2,4	50.1	40.8	16.5	CO	Y	M
640	FL	CNP	N	NA	2	NA	IN(RT)	Y	1,3,4	36.8	24.8	7.4	MD	N	M
641	BL	TD	Y	FL	0	FO	IN	Y	1,4	43.6	33.7	12.3	PR	Y	M02
642	BL	NC	N	NA	0	NA	AX	Y	1,3	36.5	16.9	7.6	DS	Y	M01
643	BL	NC	N	NA	0	NA	OP	Y	1,4	65.4	27.2	13	DS	Y	M01
644	BL	CNP	N	NA	1	NA	NM	Y	1,4	58.8	17.9	2.4	DS	Y	M01
645	FL	SD	Y	FL	1	FO	SN	Y	4	21.1	17.9	2.4	PR	Y	M01
646	BL	NC	N	NA	0	NA	SN	Y	1,4	51.3	30.9	12.8	MD	N	M00
647	BL	NC	N	NA	0	NA	AX	Y	1,4	21.1	26.2	3.5	DS	Y	M01
648	BL	SD	Y	FL	1	PR	HG,SN	Y	1,2	20.8	10.7	1.1	PR	N	M01
649	FL	SD	Y	CR	2	DF	HG	Y	1	17.1	17.6	1.4	PR	Y	M01
650	FL	CNP	N	NA	1	NA	SN	Y	IN	17.9	27.5	2	MD	Y	M01
651	FL	CNP	N	NA	5	NA	AX	N	NA	22.2	20.4	2.8	DS	N	M
652	FL	CNP	N	NA	5	NA	AX	N	NA	27.2	14.6	1.1	DS	Y	M01
653	FL	CNP	N	NA	5	NA	HG	N	NA	14.2	23.9	2.6	DS	Y	M01
654	FL	CNP	N	NA	5	NA	OP	N	NA	13.2	14.2	0.9	DS	N	M
655	FL	TD	Y	AN	0	DF	SN	Y	1	26.6	21.4	1.9	PR	Y	M01
656	FL	CNP	N	NA	1	NA	OP	Y	IN	19.1	17.1	2.3	DS	N	M01
657	FL	TD	Y	AN	0	PR	HG	Y	1	15.5	24.5	1.7	PR	Y	M01
658	BL	CNP	N	NA	1	NA	AX	Y	1,2	15.6	14	2.5	DS	N(FN)	M02
659	BL	CNP	N	NA	1	NA	AX	Y	1	31	14.9	2.1	DS	Y	M01
660	BL	NC	N	NA	0	NA	NM	Y	1	15.1	17.1	0.9	DS	N	M01
661	BL	TD	Y	AN	1	PR	NM	Y	1,3,4	21.8	16.2	1.7	CO	N(FN)	M01
662	FL	NC	N	NA	0	NA	OP	Y	1,2,3,4	28.5	31.7	5	DS	Y	M00
663	BL	TD	Y	AN	0	PR	HG	Y	1,2,3,4	23.4	14.7	1.5	PR	Y	M01
664	FL	CNP	N	NA	3	NA	NM	Y	3	33.6	17.9	4.2	DS	Y	M01
665	FL	TD	Y	FL	0	PR	NM	Y	1,4	18.6	16.2	1.4	PR	Y	M02
666	FL	CNP	N	NA	1	NA	HG,SN	Y	1	20.2	17.1	1.3	DS	N	M00
667	FL	SD	Y	FL	1	PR	SN	Y	2	34.5	26.9	5.3	PR	Y	M02
668	FL	SD	Y	CTX	2	PR	NM	Y	1	20	15.5	1.6	CO	Y	M01
669	FL	NC	N	NA	0	NA	HG	Y	1,4	25.2	22.3	3.2	MD	Y	M01
670	FL	TD	Y	AN	0	DF	NM	Y	1	16.3	18.5	0.8	CO	Y	M00
671	FL	NC	N	NA	0	NA	IN(RT)	Y	1	15	21.1	1.1	DS	Y	M01
672	FL	CNP	N	NA	1	NA	HG	Y	1	19.4	22.9	2.1	MD	Y	M02
673	FL	NC	N	NA	0	NA	NM	Y	4	16.2	22.1	1.4	DS	N	M01
674	BL	TD	Y	FL	0	DF	HG	Y	1,2,4	18	15.5	1.6	PR	N	M01
675	BL	CNP	N	NA	1	NA	AX	Y	1,3	43.3	19.2	15.2	DS	Y	M02
676	FL	CNP	N	NA	5	NA	AX	N	NA	24	21.9	6.7	DS	Y	M01
677	FL	NC	N	NA	0	NA	SN	Y	4	18.1	20.5	1.4	MD	Y	M02
678	FL	SD	Y	AN	1	FO	AX	Y	1,4	28.9	15.6	2.1	CO	Y	M
679	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	21.8	17.1	1.8	DS	Y	M01
680	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	21.3	16.6	1.6	DS	Y	M01
681	FL	SD	Y	CTX	2	PR	HG	Y	3,4	22.4	20	2.7	PR	Y	M01
682	FL	CNP	N	NA	1	NA	OP	Y	2	21.5	27.4	3.7	DS	Y	M02
683	FL	CNP	N	NA	1	NA	AX	Y	1	25	17.1	1.9	DS	Y	M01
684	FL	CNP	N	NA	4	NA	SN	Y	1	20.7	18.8	2	MD	Y	M00
685	FL	CNP	N	NA	1	NA	SN	Y	1,2	24.7	27.6	3.2	MD	Y	M00
686	FL	CNP	N	NA	1	NA	AX	Y	1,4	21.3	22	4.3	DS	Y	M00
687	FL	TD	Y	CR	0	PR	SN	Y	1	19.5	17.4	1.6	PR	Y	M
688	FL	CNP	N	NA	1	NA	SN	Y	4	20.7	20.1	1.7	MD	Y	M00
689	FL	CNP	N	NA	1	NA	AX	Y	1	22.9	29.5	3.2	DS	Y	M01
690	FL	CNP	N	NA	1	NA	HG,NM	Y	4	17.1	20.8	1.9	DS	Y	M02
691	BL	CNP	N	NA	1	NA	AX	Y	1	29.5	12.5	1.9	DS	Y	M01
692	BL	NC	N	NA	0	NA	SN	Y	1,4	23	11.9	0.9	MD	Y	M01
693	BL	CNP	N	NA	1	NA	AX	Y	1	23.5	18.4	3.4	DS	N	M00
694	FL	TD	Y	AN	0	DF	HG	Y	1,4	25.1	23.5	2.6	PR	Y	M00
695	FL	NC	N	NA	0	NA	HG	Y	1,4	19.3	28.7	2.4	DS	Y	M00
696	FL	NC	N	NA	0	NA	HG	Y	1,4	19.3	28.7	2.4	DS	Y	M01
697	BL	CNP	N	NA	2	NA	HG	Y	1	19.1	13.5	0.9	MD	Y	M01
698	FL	CNP	N	NA	1	NA	SN	Y	1,4	34.1	23.5	3.9	MD	Y	M01
699	BL	CNP	N	NA	1	NA	AX	Y	1,2	23	12.9	1.7	DS	N(FN)	M
700	BL	CNP	N	NA	1	NA	AX	Y	1	23.7	21.1	3.4	DS	N(FN)	M00
701	FL	NC	N	NA	0	NA	NM	Y	1,4	19.3	30.4	2.6	DS	Y	M02
702	BL	TD	Y	AN	0	DF	HG	Y	1	13.2	20.4	1.5	PR	Y	M
703	FL	NC	N	NA	0	NA	AX	Y	1	18.9	20.6	1.9	DS	Y	M01
704	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	25.6	22.3	3.1	DS	N	M00
705	BL	TD	Y	AN	0	FO	AX	Y	1,4	28.3	12.7	1.9	CO	Y	M00
706	FL	NC	N	NA	0	NA	AX	Y	1	20.8	25.4	2.9	DS	Y	M
707	FL	TD	Y	AN	0	PR	SN	Y	1,4	13.8	23.1	2.1	PR	Y	M00
708	BL	NC	N	NA	0	NA	AX	Y	1	32	11.1	1.5	DS	Y	M00
709	FL	SD	Y	CTX	1	FO	IN(RT)	Y	1,4	18.1	18.8	1.9	PR	Y	M00
710	FL	NC	N	NA	0	NA	SN	Y	1,4	18.1	18.8	1.9	DS	Y	M01

711	BL	CNP	N	NA	1	NA	SN	Y	1	21.2	20.6	2	MD	Y	M02
712	BL	NC	N	NA	0	NA	SN,HG	Y	1,4	21	23.4	2.8	MD	Y	M00
713	BL	TD	Y	AN	0	DF	SN	Y	1	19.1	16.8	1.1	PR	Y	M01
714	FL	TD	Y	AN	0	DF	NM	Y	1,2,4	14.1	25.6	2.5	CO	Y	M00
715	FL	NC	N	NA	0	DF	NM	Y	2	19.7	22.8	2	MD	N	M01
716	BL	CNP	N	NA	1	NA	HG	Y	1,3	21.5	16.4	1.8	MD	Y	M00
717	FL	CNP	N	NA	5	NA	SN	N	NA	13.6	21.1	2	MD	Y	M02
718	BL	NC	N	NA	0	NA	AX	Y	1	30.6	20.5	2.6	DS	N	M02
719	BL	NC	N	NA	0	NA	IN(RT)	Y	1	18.8	21.3	2.4	MD	N	M01
720	FL	SD	Y	CTX	1	DF	AX	Y	1	22.3	13.6	1.9	CO	N(FN)	M01
721	FL	TD	Y	AN	0	PR	SN	Y	1,4	15.4	15.3	1.7	PR	Y	M
722	FL	NC	N	NA	0	NA	HG	Y	3	9.2	25.3	1.3	MD	Y	M
723	BL	NC	N	NA	0	NA	AX	Y	1	23.6	26.1	4	DS	Y	M
724	BL	TD	Y	FL	0	PR	IN(RT)	Y	1,4	29	11.2	1.7	CO	Y	M
725	BL	NC	N	NA	0	NA	IN(RT)	Y	1	26.2	11.3	1.3	DS	N	M01
726	BL	CNP	N	NA	2	NA	AX	Y	1,3	24.7	14.6	1	DS	Y	M
727	FL	TD	Y	AN	0	PR	NM	Y	1,4	15.4	16.4	1.4	CO	Y	M01
728	FL	TD	Y	FL	0	DF	HG	Y	1,4	18.7	19	2	PR	Y	M
729	BL	TD	Y	AN	0	PR	SN	Y	1,4	19.5	16.7	1.3	PR	Y	M00
730	FL	TD	Y	FL	0	DF	NM,SN	Y	1,4	24.3	19.6	1.8	PR	Y	M01
731	FL	SD	Y	AN	1	DF	OP	Y	1	21.1	24.1	1.6	CO	N	M02
732	FL	NC	N	NA	0	NA	HG,SN	Y	1,2	19	27.3	1.8	MD	Y	M01
733	FL	TD	Y	AN	0	DF	AX	Y	1	23.9	12.9	1.7	CO	N(FN)	M02
734	FL	CNP	N	NA	1	NA	HG,NM	Y	1,4	17.8	22.6	1.9	DS	N	M02
735	FL	TD	Y	CR	0	DF	IN(FN)	Y	1,4	13.5	20.2	0.9	PR	Y	M00
736	FL	TD	Y	FL	0	DF	HG	Y	1	19.3	14.5	0.9	PR	Y	M01
737	FL	TD	Y	RD	0	PR	SN	Y	1,4	21.4	24.7	2	PR	Y	M01
738	FL	SD	Y	FL	1	DF	IN(RT)	Y	1,2,4	16.3	21.1	1.8	CO	Y	M01
739	FL	TD	Y	AN	0	PR	HG,NM	Y	1	22.4	17.1	1.3	PR	Y	M02
740	BL	NC	N	NA	0	NA	HG	Y	1	14.8	20.9	1.6	MD	N	M
741	BL	TD	Y	AN	0	PR	SN	Y	3,4	14.7	14	0.9	PR	Y	M
742	FL	CNP	N	NA	1	NA	SN	Y	1,2	10	27.9	2.3	MD	N	M01
743	BL	SD	Y	FL	1	DF	HG	Y	1,4	20.3	12.7	1.4	PR	N	M02
744	FL	NC	N	NA	0	NA	HG	Y	4	16.5	31.3	2.9	MD	N	M01
745	FL	PD	Y	AN	5	PR	NM	Y	1	19.5	11.3	0.7	PR	Y	M01
746	FL	SD	Y	AN	1	PR	SN	Y	1,4	16.3	19.3	1.3	PR	N(FN)	M01
747	BL	TD	Y	AN	0	DF	AX	Y	1,4	36.5	8.2	1.3	CO	Y	M01
748	BL	CNP	N	NA	1	NA	AX	Y	1,4	44.4	9.4	3.2	DS	Y	M01
749	BL	NC	N	NA	0	NA	SN	Y	1,4	37.4	9.4	2.5	MD	Y	M
750	BL	SD	Y	CTX	1	PR	SN	Y	1,4	30.2	10.4	1.5	PR	Y	M
751	BL	SD	Y	AN	4	PR	SN	Y	1	24.5	10.4	1.3	PR	Y	M
752	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	29.5	8.1	1.6	MD	Y	M00
753	FL	TD	Y	AN	0	DF	IN(RT)	Y	1	19.9	23	2.5	PR	N(FN)	M01
754	FL	SD	Y	CR	1	PR	SN	Y	1	11.7	21.7	1.1	PR	Y	M01
755	FL	NC	N	NA	0	NA	NM	Y	1,3,4	25.7	17.1	2	DS	Y	M01
756	BL	TD	Y	FL	0	PR	SN	Y	1,4	20.5	15	1	PR	Y	M
757	FL	NC	N	NA	0	NA	HG	Y	IN	12.2	24.3	1.8	MD	Y	M00
758	FL	CNP	N	NA	1	NA	SN	Y	1,4	20.3	16.2	1.6	MD	N	M00
759	FL	NC	N	NA	0	NA	SN	Y	1,2	23.3	21.5	1.7	MD	Y	M02
760	FL	TD	Y	RD	0	DF	SN	Y	1,2	24.1	13.1	1.4	PR	Y	M02
761	FL	SD	Y	FL	1	DF	NM,SN	Y	1,4	11.9	20.5	2	PR	Y	M01
762	FL	SD	Y	CTX	1	DF	NM	Y	IN	11.3	26.8	1	PR	N	M01
763	BL	TD	Y	AN	0	DF	HG	Y	1,4	24.4	15.8	2.8	PR	Y	M02
764	BL	TD	Y	AN	0	DF	SN	Y	1,4	17.7	17.8	0.7	PR	Y	M01
765	FL	NC	N	NA	0	NA	SN	Y	1,4	22.3	22	1.6	MD	Y	M01
766	FL	TD	Y	AN	0	NA	OP	Y	2	19.3	27	2.8	PR	N	M
767	FL	TD	Y	AN	0	DF	IN(RT)	Y	1	22	22.5	1.4	PR	N	M01
768	FL	SD	Y	CR	1	DF	NM	Y	1	15.5	29	2	PR	Y	M00
769	FL	TD	Y	FL	0	DF	SN,HG	Y	2,4	20.3	22.9	0.8	PR	Y	M01
770	FL	SD	Y	FL	1	DF	HG	Y	1,4	14.5	24.9	1.8	PR	Y	M01
771	BL	NC	N	NA	0	NA	AX	Y	1,4	19	12	1.2	DS	Y	M
772	BL	NC	N	NA	0	NA	AX	Y	1,4	24.1	6.4	1.1	DS	N	M00
773	FL	SD	Y	CTX	1	DF	HG,SN	Y	1	16.8	20	2.3	PR	N	M
774	FL	CNP	N	NA	1	NA	NM	Y	1,4	17.1	14.9	0.7	DS	N	M01
775	BL	TD	Y	AN	0	DF	SN	Y	1,4	20.3	15.8	2.1	PR	N	M01
776	FL	TD	Y	CR	0	FO	SN	Y	1,4	15.8	16.7	1.6	PR	Y	M02
777	FL	TD	Y	RD	0	DF	SN	Y	1,4	9.7	22.1	1.9	PR	N	M00
778	BL	TD	Y	FL	0	PR	SN	Y	2	18	16.6	1.6	PR	N	M01
779	FL	SH	N		5	NA				.	.	1.6	CO	N	M
780	FL	CNP	N	NA	4	NA	SN	Y	4	13	18.2	2.1	MD	Y	M00
781	FL	SD	Y	AN	1	DF	NM	Y	1	17.8	18.1	1.3	PR	N	M01
782	FL	NC	N	NA	0	NA	NM	Y	2	18.6	15.9	1.4	DS	N	M01
783	FL	TD	Y	AN	0	DF	HG	Y	1	16.8	21.7	1.9	PR	N	M02
784	FL	CNP	N	NA	1	NA	SN,HG	Y	1,4	14.8	27.4	1.9	MD	Y	M00
785	FL	SD	Y	AN	1	DF	ST	Y	1	16.1	11.4	1.1	PR	N	M02
786	FL	SD	Y	RD	1	DF	IN(RT)	Y	1	10.7	18.4	1	PR	N	M00
787	FL	SD	Y	CTX	2	FO	HG,SN	Y	4	10.4	24.4	1.5	PR	Y	M
788	FL	CNP	N	NA	1	NA	HG	Y	1	22.2	16.8	4.8	MD	Y	M02
789	BL	CNP	N	NA	3	NA	AX	Y	1	34.3	18	4.1	DS	N	M02
790	BL	NC	N	NA	0	NA	HG	Y	1,4	19	12.4	0.9	MD	Y	M01
791	FL	NC	N	NA	0	NA	ST	Y	1	25	26.1	3.3	MD	N	M02
792	FL	NC	N	NA	0	NA	NM	Y	1,3,4	15.5	24.5	2.2	DS	Y	M01
793	FL	CNP	N	NA	3	NA	NM,SN	Y	1,2	15.2	16.9	1.1	DS	Y	M01
794	FL	TD	Y	CR	0	FO	HG	Y	1,4	22.2	16.5	1.6	PR	Y	M
795	BL	NC	N	NA	0	NA	HG,SN	Y	1,4	21.7	24.4	2.7	MD	Y	M02

796	FL	NC	N	NA	0	NA	SN	Y	4	17.7	24	1.6	MD	Y	M01
797	FL	SD	Y	CTX	3	DF	NM,SN	Y	4	12.6	21.6	1.6	PR	N(FN)	M00
798	BL	SD	Y	AN	2	DF	OP	Y	1,4	42.1	16.5	5.5	PR	Y	M02
799	FL	NC	N	NA	0	NA	SN	Y	1	9.6	23.8	1.1	MD	N	M00
800	FL	CNP	N	NA	1	NA	AX	Y	1	12.1	20.2	1.3	DS	N	M00
801	FL	NC	N	NA	0	NA	HG	Y	1	13.2	26.6	2.2	DS	Y	M01
802	FL	NC	N	NA	0	NA	SN	Y	1,4	13.8	23.6	2.3	MD	N	M00
803	FL	NC	N	NA	0	NA	AX	Y	4	16.6	21.5	1.2	DS	N	M02
804	FL	TD	Y	AN	0	PR	SN	Y	1,4	9.6	12.5	0.6	PR	N	M
805	FL	SD	Y	FL	2	DF	HG,SN	Y	1,3	15.6	20	1.3	PR	Y	M
806	FL	TD	Y	AN	0	PR	SN	Y	1,4	12.7	19.1	0.8	PR	Y	M01
807	FL	CNP	N	NA	5	NA	AX	N	NA	20.5	13.8	1.9	DS	N	M01
808	FL	NC	N	NA	0	NA	HG	Y	IN	10.9	29.2	1.4	MD	N	M01
809	BL	NC	N	NA	0	NA	AX,HG	Y	1	14	9.6	1.6	DS	Y	M02
810	FL	NC	N	NA	0	NA	NM	Y	1	17.2	21.3	1.1	DS	N	M00
811	FL	NC	N	NA	0	NA	AX	Y	1	12.1	19.6	0.8	DS	N	M00
812	FL	NC	N	NA	0	NA	AX	Y	1,4	16.3	17.9	2	DS	Y	M01
813	FL	SD	Y	AN	1	DF	IN	Y	IN	22.7	12.5	1.1	PR	Y	M00
814	FL	CNP	N	NA	1	NA	AX	Y	2,4	13.4	21	1.5	DS	N	M01
815	FL	NC	N	NA	0	NA	SN	Y	1,4	13.8	22.1	0.9	MD	N	M01
816	FL	NC	N	NA	0	NA	OP,SN	Y	1,4	16.5	17.2	1.1	DS	Y	M02
817	FL	CNP	N	NA	5	NA	SN	N	NA	18.7	9.7	0.7	MD	Y	M00
818	BL	CNP	N	NA	1	NA	AX	Y	1,2	20.6	16.1	1.3	DS	Y	M01
819	BL	NC	N	NA	0	NA	SN	Y	1,4	12.2	13.8	0.7	MD	Y	M
820	BL	TD	Y	AN	0	PR	SN	Y	1	20.4	13	1.4	PR	N	M01
821	BL	SD	Y	FL	1	DF	AX	Y	1,3,4	19.8	14.1	1.6	CO	N	M01
822	FL	CNP	N	NA	1	NA	AX	Y	1,4	16.5	17.1	1.4	DS	Y	M00
823	FL	CNP	N	NA	3	NA	AX	Y	1,4	13	23.1	1.6	DS	Y	M00
824	BL	NC	N	NA	0	NA	AX	Y	1,4	15	12.7	1.2	DS	Y	M00
825	FL	TD	Y	AN	0	FO	AX	Y	1,3	12.9	20.7	1.5	CO	N	M01
826	FL	CNP	N	NA	1	NA	AX	Y	1,4	13.3	19.9	1.3	DS	N	M02
827	FL	TD	Y	FL	0	FO	HG,ST	Y	1,4	10.2	21.1	1.1	PR	N	M02
828	BL	SD	Y	AN	4	FO	SN	Y	1	21.8	7.6	1.5	PR	N	M
829	BL	NC	N	NA	0	NA	AX	Y	1,4	24.5	12.1	1.5	DS	Y	M01
830	BL	TD	Y	CR	0	FO	SN	Y	1,4	21.1	6.9	0.8	PR	Y	M01
831	BL	TD	Y	FL	0	DF	SN	Y	1,4	22.4	5.9	0.7	PR	Y	M
832	BL	NC	N	NA	0	NA	AX	Y	1,4	22.4	5.9	0.7	DS	Y	M02
833	FL	TD	Y	AN	0	PR	IN(RT)	Y	1,3	50.8	40	22.1	CO	Y	M
834	BL	NC	N	NA	0	NA	IN(RT)	Y	2,3,4	61.9	30.5	41	MD	N	M01
835	BL	NC	N	NA	0	NA	IN(RT)	Y	1,3,4	54.5	27.3	11.5	MD	N	M01
836	BL	NC	N	NA	0	NA	IN	Y	1,4	44.4	18.4	7.9	MD	Y	M02
837	BL	NC	N	NA	0	NA	IN	Y	1,4	37.6	18.1	5.8	MD	N	M
838	BL	NC	N	NA	0	NA	IN	Y	1,4	25.1	17.9	4.4	MD	Y	M01
839	BL	NC	N	NA	0	NA	IN	Y	1,4	46.3	19.9	7.6	MD	Y	M02
840	FL	TD	Y	AN	0	PR	AX	Y	1,4	87.5	81.5	143.1	CO	Y	M
841	FL	SD	Y	RD	1	PR	SN	Y	1,4	39	94.9	62.9	PR	Y	M
842	BL	TD	Y	AN	0	DF	IN(RT)	Y	1	60.9	31.9	21.4	PR	Y	M01
843	FL	TD	Y	AN	0	DF	HG	Y	1,4	61.3	65.9	67.9	PR	Y	M02
844	BL	SD	Y	FC	1	DF	IN(RT)	Y	1,4	60.5	37.5	20.7	CO	Y	M
845	BL	SD	Y	RD	1	PR	SN	Y	1,4	52	48.6	31.8	PR	Y	M
846	BL	SD	Y	AN	1	DF	IN(RT)	Y	1,4	76.8	30.5	25.4	PR	Y	M
847	BL	SD	Y	AN	1	DF	IN(RT)	Y	1	47.6	31	10.4	PR	Y	M01
848	BL	TD	Y	RD	1	FO	IN(RT)	Y	1,4	66.2	33	27.3	PR	Y	M01
849	BL	SD	Y	AN	1	DF	HG	Y	1,4	53.3	26.5	10.8	PR	Y	M
850	BL	SD	Y	FL	1	DF	SN	Y	4	41	18.7	5.4	PR	Y	M01
851	FL	NC	N	NA	0	NA	HG	Y	1	33	43.2	9.7	DS	Y	M
852	FL	TD	Y	AN	0	PR	SN	Y	1,2,4	39	37.6	11	PR	Y	M
853	BL	SD	Y	AN	2	DF	OP	Y	1,4	46.1	21.9	9.3	CO	Y	M
854	BL	CNP	N	NA	2	NA	AX	Y	1,2	50.1	28.8	15.8	DS	Y	M02
855	BL	CNP	N	NA	1	NA	AX	Y	1	71.3	23.2	17.5	DS	Y	M01
856	FL	PD	Y	FL	5	DF	IN(RT)	N	NA	31.8	71.2	29.4	CO	Y	
857	BL	NC	N	NA	0	NA	IN(RT)	Y	1,2,3,4	61.7	23.2	20.1	MD	Y	M02
858	BL	TD	Y	FL	0	DF	IN(RT)	Y	1,4	39.9	22.8	6.1	PR	Y	
859	BL	SD	Y	FC	1	DF	OP	Y	1,4	43.1	17.9	6.8	CO	N	M01
860	BL	SD	Y	FL	1	DF	HG	Y	1,3,4	69.9	37.2	42.6	PR	Y	M02
861	FL	PD	Y	CR	5	DF	SN	N	NA	38.6	37.9	9.4	PR	Y	M01
862	BL	SD	Y	AN	1	DF	AX	Y	1,4	34.5	25.6	7.9	PR	Y	M01
863	BL	NC	N	NA	0	NA	AX	Y	1,4	46.6	20.9	7.4	DS	Y	M01
864	FL	TD	Y	AN	0	PR	SN	Y	1,2,3	39.6	30	5.3	PR	Y	M01
865	FL	CNP	N	NA	1	NA	SN	Y	3	24.7	31.2	6.2	MD	Y	M02
866	BL	SD	Y	AN	2	PR	AX	Y	1	30.8	29.6	6.9	CO	Y	M01
867	FL	SD	Y	AN	1	DF	HG	Y	1,2,4	33.9	19.2	2.9	CO	Y	M00
868	BL	SD	Y	FL	1	DF	SN	Y	1,4	46.9	25.1	8.1	PR	Y	M01
869	BL	SD	Y	FC	0	PR	IN(RT)	Y	1,2,3	75.2	39.8	31	CO	Y	M
870	BL	SD	Y	AN	1	PR	HG	Y	1,3,4	31.7	16.4	2.4	PR	Y	M00
871	FL	PD	Y	FL	4	PR	HG	Y	2,3	49	57.4	32.2	PR	Y	M
872	BL	SD	Y	FL	4	DF	OP	Y	3	37.7	23.8	6.7	CO	Y	M01
873	BL	CNP	N	NA	4	NA	HG	Y	3	74.4	31.3	39	MD	Y	M01
874	BL	CNP	N	NA	3	NA	IN(RT)	Y	1	56.5	31.3	18.4	DS	Y	M02
875	FL	SD	Y	AN	1	PR	HG	Y	1	52.2	43.5	22.7	CO	Y	M
876	FL	SD	Y	FC	4	PR	IN(RT)	Y	2	30.1	42	9.4	CO	Y	M01
877	FL	CNP	N	NA	2	NA	SN	Y	1	24.7	33.2	5.6	MD	Y	
878	FL	SD	Y	RD	2	PR	IN(RT)	Y	1	28.2	28.5	5.4	CO	Y	M
879	FL	SD	Y	AN	2	PR	IN(RT)	Y	1	34.7	33.6	6.6	CO	Y	M00
880	BL	CNP	N	NA	3	NA	AX	Y	1	33.6	25	5.9	DS	N	M01

881	FL	CNP	N	NA	5	NA	NM	N	NA	14.6	32.2	2.1	DS	Y	M01
882	FL	CNP	N	NA	5	NA	AX	N	NA	28.7	37.2	14.1	MD	N	M02
883	BL	CNP	N	NA	4	NA	AX	Y	1	33.8	17.4	3	DS	Y	M02
884	BL	SD	Y	RD	4	PR	NM	Y	3	33.4	19.2	3.5	CO	Y	M01
885	FL	CNP	N	NA	4	NA	NM	Y	1	25	20.7	3.7	DS	N	M01
886	FL	SD	Y	AN	4	PR	SN	Y	4	16.8	21.2	2.3	PR	Y	M00
887	FL	CNP	N	NA	5	NA	AX	N	NA	21.8	50.6	9.7	DS	Y	M02
888	FL	CNP	N	NA	4	NA	AX	Y	1	25	21.7	2.6	DS	Y	M
889	FL	CNP	N	NA	4	NA	NM	Y	1	15.6	27.8	1.9	DS	Y	M02
890	FL	SD	Y	CTX	2	DF	NM	Y	4	20.7	38.4	5.5	CO	Y	M
891	BL	TD	Y	CR	0	PR	HG	Y	1,4	48.2	24.1	9.8	PR	Y	M01
892	FL	SD	Y	AN	4	PR	OP	Y	3	40.5	40.6	20.4	CO	Y	M01
893	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	36.2	20.1	5.5	DS	Y	M
894	BL	CNP	N	NA	1	NA	AX	Y	1,2,3	57.1	20.3	10.2	DS	Y	M
895	BL	SD	Y	AN	1	PR	SN	Y	1,4	45.5	24.8	10.7	PR	Y	M01
896	BL	SD	Y	AN	1	PR	SN	Y	1,4	36.6	24.1	2.2	CO	Y	
897	BL	NC	N	NA	0	NA	AX	Y	1,2,4	33.8	14.8	3.3	DS	Y	
898	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	27.6	16.3	1.8	DS		CORE
899	BL	TD	Y	AN	0	PR	IN(RT)	Y	1,2,4	31	16.2	3.1	CO	Y	M01
900	COR											64		Y	M
901	FL	SD	Y	CR	1	FO	SN	Y	1,2,4	28.4	35.6	8.2	PR	Y	M02
902	BL	NC	N	NA	0	NA	NM	Y	1,4	30.9	16.5	4.3	DS	Y	M01
903	FL	SD	Y	FL	2	FO	AX	Y	4	19.1	30.1	3.7	CO	Y	M
904	BL	TD	Y	FL	0	PR	AX	Y	1,4	35.3	21.7	3	CO	Y	M00
905	BL	CNP	N	NA	3	NA	AX	Y	1,4	26.8	18.4	1.9	DS	Y	M00
906	FL	SD	Y	CR	3	DF	IN(RT)	Y	1,3,4	20.4	33.3	3.5	PR	Y	M
907	BL	SD	Y	AN	4	PR	SN	Y	1	23.9	17.1	1.5	PR	Y	M
908	FL	SD	Y	FL	3	PR	SN	Y	1,4	14.7	23.2	3.7	PR	Y	M00
909	BL	NC	N	NA	0	NA	IN(RT)	Y	1	35.2	23.6	3.7	DS	Y	M
910	FL	SD	Y	CR	3	DF	SN	Y	1,3	21.4	29.9	3.5	PR	N	M
911	BL	NC	N	NA	0	NA	HG	Y	1,4	32.6	25.1	6.4	DS	Y	M00
912	FL	CNP	N	NA	5	NA	AX	N	NA	25.4	20.9	2.4	DS	Y	M
913	BL	TD	Y	FL	0	PR	HG	Y	1,4	26.5	22.1	2.8	PR	N	M
914	BL	CNP	N	NA	3	NA	HG	Y	2	56.7	22.8	17.8	MD	N	M01
915	BL	CNP	N	NA	1	NA	SN	Y	2,3	28.3	9.4	2.1	MD	Y	M
916	FL	SD	Y	AN	4	DF	NM	Y	1	22.8	25.6	5.5	CO	Y	M00
917	BL	TD	Y	FL	0	PR	SN	Y	1	34.7	19.6	1.4	PR	Y	M
918	BL	CNP	N	NA	2	NA	HG	Y	1	14.4	18.6	1.8	DS	Y	M00
919	BL	CNP	N	NA	4	NA	AX	Y	1	18.1	13.4	1	DS	N	M01
920	FL	CNP	N	NA	4	NA	AX	Y	1	20.8	18.9	2.4	DS	Y	M01
921	FL	CNP	N	NA	1	NA	AX	Y	1	21.4	17.8	1.4	DS	Y	
922	FL	CNP	N	NA	4	NA	IN(RT)	Y	3,4	23.5	21.2	2.3	MD	Y	M02
923	BL	SD	Y	FL	2	DF	IN(RT)	Y	1,4	16.4	32.6	27.8	CO	Y	M02
924	FL	CNP	N	NA	1	NA	AX	Y	1,4	45.9	49.2	35.9	DS		
925	FL	TD	Y	FC	0	FO	IN(RT)	Y	1,4	53.3	51.7	35.9	PR	Y	M00
926	COR													Y	M01
927	FL	NC	N	NA	0	NA	HG	Y	1	32.3	49.6	39.1	MD	Y	M01
928	BL	NC	N	NA	0	NA	AX	Y	1,4	25.2	11.7	1	DS	N	M00
929	BL	NC	N	NA	0	NA	HG	Y	1,4	18.1	12	0.7	MD	Y	M00
930	BL	CNP	N	NA	5	NA	AX	N	NA	26.8	10.4	0.9	DS	N	M01
931	BL	NC	N	NA	0	NA	HG	Y	1,4	27.3	10.7	0.9	MD	Y	M01
932	BL	NC	N	NA	0	NA	AX	Y	1,3	21.8	7.8	0.6	DS	Y	M
933	BL	NC	N	NA	0	NA	AX	Y	1,4	25.9	11.8	0.9	DS	Y	M01
934	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	26.8	11.9	1.3	DS	Y	M01
935	BL	NC	N	NA	0	NA	AX	Y	1,4	25.4	9	0.4	DS	Y	M01
936	BL	NC	N	NA	0	NA	AX	Y	1	27.6	8.9	1	DS	Y	M02
937	BL	NC	N	NA	0	NA	NM	Y	1,4	21.9	10.1	0.6	DS	Y	M01
938	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	26.7	10	1	DS	Y	M
939	BL	NC	N	NA	0	NA	IN(RT)	Y	1	21.3	11.1	1.1	DS	Y	M01
940	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	23.6	10.5	1.1	DS	Y	M
941	BL	NC	N	NA	0	NA	AX	Y	1,4	25.4	8.7	0.8	DS	N	M
942	BL	TD	Y	FC	0	DF	AX	Y	1	27.8	9.8	0.7	CO	Y	M01
943	BL	TD	Y	FL	0	FO	SN	Y	1,4	19.6	9	0.4	PR	Y	M01
944	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	17.1	8.4	0.5	DS	N	M02
945	BL	NC	N	NA	0	NA	HG	Y	1	18.3	8.3	0.3	MD	N	M02
946	BL	TD	Y	FL	0	DF	SN	Y	4	14.3	9	0.3	PR	N	M
947	BL	SD	Y	CTX	1	DF	sn	y	4	12.8	8.4	0.3	PR	N	M00
948	BL	TD	Y	CR	0	FO	ST	Y	4	16.5	6.3	0.3	PR	N	M01
949	BL	NC	N	NA	0	NA	SN	Y	1,4	21.4	11.8	1.2	MD	N	M00
950	BL	TD	Y	FL	0	DF	SN	Y	1,4	20	7.6	0.8	PR	Y	M
951	BL	TD	Y	AN	0	PR	ST	Y	1,4	19.8	10.9	0.7	PR	Y	M01
952	BL	NC	N	NA	0	NA	IN(RT)	Y	1	20.3	8.1	0.6	DS	N	M
953	BL	NC	N	NA	0	NA	HG	Y	1	20.7	11.3	0.8	DS	N(FN)	M00
954	BL	NC	N	NA	0	NA	SN	Y	1,4	21.1	11	1	MD	N	M01
955	BL	SD	Y	CTX	2	PR	AX	Y	2	24.9	13.2	0.9	CO	Y	M01
956	BL	NC	N	NA	0	NA	HG	Y	1,4	19.6	8.9	0.4	MD	Y	M02
957	BL	NC	N	NA	0	NA	SN	Y	1,4	16.4	9	0.4	MD	N	M01
958	BL	NC	N	NA	0	NA	AX	Y	1,4	17.8	9.5	0.5	DS	N	M01
959	BL	TD	Y	CR	0	DF	SN	Y	1	17.1	9.1	0.4	PR	N	M01
960	BL	NC	N	NA	0	NA	AX	Y	1,4	14.1	7.5	0.3	DS	N	M01
961	BL	NC	N	NA	0	NA	AX	Y	1	13.8	7.2	0.3	DS	N	M
962	BL	SD	Y	CR	1	FO	SN	Y	1,4	17	6.5	0.3	PR	Y	M
963	BL	NC	N	NA	0	NA	AX	Y	1,4	19.8	7.4	0.5	DS	Y	M01
964	BL	CNP	N	NA	3	NA	HG	Y	4	24.2	8.9	0.9	MD	N	M
965	BL	NC	N	NA	0	NA	SN	Y	1,4	17.4	6.5	0.3	MD	N	M01

966	BL	NC	N	NA	0	NA	SN	Y	1,4	8.3	8.3	0.2	MD	N	M01
967	BL	TD	Y	RD	0	FO	ST	Y	1,4	18.3	10.7	0.8	PR	N	M01
968	BL	NC	N	NA	0	NA	SN	Y	1,4	14	7.7	0.3	MD	N	M00
969	BL	NC	N	NA	0	NA	SN	Y	1,4	13.3	6.9	0.3	MD	Y	
970	BL	NC	N	NA	0	NA	SN	Y	1,4	17.8	7.1	0.6	MD	N	M00
971	FL	NC	N	NA	0	NA	SN	Y	2,3	21.2	26.6	2.9	MD	Y	M01
972	FL	NC	N	NA	0	NA	SN	Y	4	22.1	27	2.8	MD	N	M01
973	BL	TD	Y	RD	0	PR	SN	Y	4	19.3	7	0.7	PR	Y	M01
974	BL	CNP	N	NA	2	NA	SN	Y	1	21.6	6.6	0.9	MD	Y	M
975	BL	NC	N	NA	0	NA	AX	Y	1	18.7	5.8	0.9	MD	N	M00
976	BL	CNP	N	NA	1	NA	AX	Y	4	17.1	6.5	0.5	DS	N	M01
977	BL	NC	N	NA	0	NA	HG	Y	1	24.6	9.3	1.3	DS	N	M00
978	BL	NC	N	NA	0	NA	ST	Y	1	21.1	6.6	0.5	DS	N	M01
979	BL	NC	N	NA	0	NA	AX	Y	1	19.1	6.4	0.5	DS	N	M01
980	BL	NC	N	NA	0	NA	AX	Y	3	16.7	4.4	0.2	DS	N	M01
981	BL	NC	N	NA	0	NA	SN	Y	2	16.5	10.6	1	MD	N	M01
982	BL	NC	N	NA	0	NA	SN	Y	2,3	27.2	4.1	0.4	DS	N	M01
983	BL	CNP	N	NA	1	NA	SN	Y	1	17.4	7.3	0.9	MD	N	M
984	BL	NC	N	NA	0	NA	AX	Y	1	20.5	5.5	0.5	DS	N	M
985	BL	CNP	N	NA	1	NA	AX	Y	1	15.9	4.9	0.3	DS	N	M
986	BL	NC	N	NA	0	NA	AX	Y	1	22.9	4.3	0.4	DS	N	M01
987	BL	NC	N	NA	0	NA	AX	Y	1	13.8	6.8	0.3	DS	N	M01
988	BL	NC	N	NA	0	NA	AX	Y	1	14.1	6.3	0.3	DS	N	M01
989	BL	NC	N	NA	0	NA	AX	Y	1,4	12.6	5.8	0.2	DS	N	M
990	FL	CNP	N	NA	5	NA	ST	N	NA	5.2	16.1	0.3	MD	N	M
991	BL	NC	N	NA	0	NA	SN	Y	1	14.3	4.3	0.3	DS	Y	M01
992	FL	NC	N	NA	0	NA	SN	Y	2	6.6	18.7	0.3	MD	N	M00
993	FL	SD	Y	FL	1	PR	ST	Y	2,3	77.4	111.7	209.7	CO	Y	M
994	FL	CNP	N	NA	2	NA	AX	Y	2,3	33.8	27.4	7.8	DS	Y	M
995	FL	CNP	N	NA	1	NA	IN(RT)	Y	1,2	33.1	88.5	55.1	DS	Y	M
996	BL	TD	Y	FC	0	DF	SN	Y	1,4	59.1	27.4	12.4	PR	Y	M01
997	BL	TD	Y	FC	0	PR	IN(RT)	Y	1,4	56.8	28.8	16.2	PR	Y	M
998	BL	CNP	N	NA	1	NA	IN(RT)	Y	1	61.2	33.9	26.3	DS	Y	M
999	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	45.6	18.5	7.9	MD	Y	M
1000	FL	TD	Y	FC	0	PR	IN(RT)	Y	1,2,3,4	69	43.3	53.1	PR	Y	M
1001	FL	TD	Y	FC	0	PR	IN(RT)	Y	1,4	52.3	27.9	11.4	PR	Y	M
1002	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	58.3	46.5	20.4	MD	Y	M
1003	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	60.4	21.8	11.1	MD	Y	M
1004	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	43.5	13.6	5	MD	Y	M01
1005	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	69.3	20.3	19.3	MD	Y	M02
1006	FL	NC	N	NA	0	NA	IN(RT)	Y	1,4	56.8	42.4	15.6	MD	Y	M
1007	BL	CNP	N	NA	1	NA	IN(RT)	Y	1,4	65.5	34.5	28.8	DS	Y	M01
1008	BL	NC	N	NA	0	NA	IN(RT)	Y	1,2,3	71.3	19.2	21.5	MD	Y	M
1009	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	25.4	7.9	1.1	MD	Y	M00
1010	BL	NC	N	NA	0	NA	IN(RT)	Y	1	50.3	18.8	6.5	MD	Y	M01
1011	BL	NC	N	NA	0	NA	IN(RT)	Y	1,4	71	23	17.7	MD		
1012	FL	SD	Y	CTX	2	PR	IN(RT)	Y	2,4	49.3	62.9	26.8	PR		

LEVEL M RETOUCH DATABASE

SPEC#		**Prox**	Types	Len	**Distal**	Types	Len	**left**	types	len	**right**	types	len
21	FL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	CT
22	FL	Y	ABR,RS	CT	N			Y	ABR	PT	Y	ABR	PT
23	FL	N			Y	ABR	DSC	N			Y	ABR	CT
24	BL	N			Y	ABR	DSC	Y	ABR	PT	N		
25	FL	Y	ABR,RS	PT	Y	ABR,RS	CT	N			N		
26	FL	N			N			Y	ABR	PT	Y	ABR	PT
27	FL	Y	ABR	CT	Y	ABR	CT	Y	ABR	DSC	Y	ABR	PT
28	FL	N			N			Y	RS	PT	Y	ABR	PT
29	FL	N			Y	NM	PT	Y	ABR,RS	DSC	Y	ABR	CT
30	BL	Y	ABR	PT	N			Y	ABR	DSC	Y	ABR	DSC
31	FL	N			Y	ABR	CT	N			N		
32	BL	Y	ABR	PT	N			N			Y	ABR	PT
33	BL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	PT
34	FL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC
35	FL	N			Y	ABR	PT	N			Y	ABR	PT
36	FL	N			N			Y	ABR	CT	Y	ABR	CT
39	FL	N			Y	ABR	DSC	Y	ABR	DSC	Y	RS	DSC
40	FL	N			Y	ABR	PT	N			N		
42	FL	N			N			Y	RS	PT	Y	ABR	PT
43	FL	N			N			Y	RS	DSC	N		
45	BL	Y	ABR	DSC	Y	ABR	DSC	N			Y	ABR,RS	DSC
46	FL	N			N			Y	RS	PT	N		
47	FL	N			N			Y	ABR	PT	Y	ABR	PT
48	FL	N			N			N			Y	ABR,RS	DSC
49	BL	N			N			N			Y	ABR,RS	PT
50	BL	Y	ABR	DSC	Y	ABR	CT	Y	ABR	CT	Y	ABR	PT
51	BL	N			N			Y	ABR	DSC	Y	RS	PT
52	BL	N			N			Y	ABR	CT	Y	ABR	CT
53	BL	N			N			N			Y	ABR	PT
54	BL	N			N			Y	ABR	PT	N		
55	FL	N			N			Y	ABR	PT	Y	ABR	PT
56	FL	N			N			Y	NM	PT	Y	ABR	CT
57	BL	N			Y	NM	PT	Y	ABR	PT	Y	ABR,NM	PT
58	FL	Y	ABR	PT	N			Y	ABR	CT	Y	ABR	PT
59	FL	Y	ABR	CT	N			Y	RS	DSC	N		

60	FL	Y	ABR	CT	Y	ABR	PT	Y	ABR	PT	Y	NM	PT		
61	BL	Y	ABR	CT	Y	ABR	PT	Y	ABR	PT	Y	NM	PT		
62	FL	N			N			Y	RS	PT	Y	ABR	DSC		
63	FL	N			N			Y	ABR,RS	DSC	Y	ABR,RS	DSC		
64	BL	N			Y	ABR	PT	Y	ABR	DSC	N				
66	FL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	PT		
67	FL	N			N			N			Y	ABR	PT		
68	BL	N			N			Y	NM	PT	Y	NM	PT		
69	FL	N			N			Y	ABR	PT	Y	ABR,RS	DSC		
70	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	PT		
71	BL	N			Y	ABR	DSC	Y	ABR	PT	Y	ABR	DSC		
72	BL	N			Y	ABR	PT	Y	ABR	CT	Y	ABR	DSC		
73	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
74	BL	N			N			Y	ABR	PT	N				
75	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
76	BL	N			N			Y	ABR	PT	N				
77	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	PT		
78	FL	N			N			Y	ABR	PT	Y	ABR,RS	PT		
79	BL	Y	ABR	PT	Y	ABR	PT	Y	ABR,RS	DSC	Y	RS	DSC		
80	FL	N			N			N			Y	ABR	PT		
81	BL	N			N			N			Y	ABR	DSC		
82	BL	N			N			Y	NM	DSC	N				
83	BL	Y	ABR	DSC	N			Y	ABR	DSC	Y	ABR,RS	DSC		
84	FL	N			Y	RS	PT	Y	ABR	PT	Y	RS	DSC		
85	BL	N			N			Y	ABR	CT	N				
86	BL	N			N			N			Y	ABR	PT		
87	FL	Y	ABR	CT	N			Y	ABR	DSC	Y	ABR	PT		
89	BL	N			N			Y	ABR	PT	Y	ABR	PT		
90	FL	N			Y	RS	DSC	Y	RS	PT	Y	ABR,RS	DSC		
91	FL	N			N			Y	RS	PT	N				
92	FL	N			N			Y	ABR	PT	Y	ABR	PT		
93	FL	N			N			Y	ABR	CT	N				
94	BL	N			N			Y	ABR	PT	N				
96	FL	N			N			Y	ABR	CT	N				
97	FL	N			N			Y	ABR	PT	N				
99	FL	N			N			Y	ABR	DSC	Y	RS	DSC		
100	BL	N			N			Y	ABR	PT	Y	RS	DSC		
102	FL	N			N			N			Y	ABR	DSC		
104	BL	Y	RS	PT	N			Y	ABR	PT	Y	ABR	DSC		
106	BL	N			N			Y	RS	DSC	Y	RS	DSC		
107	BL	N			N			Y	NM	PT	Y	ABR,RS	CT		
108	FL	Y	ABR	DSC	N			Y	ABR	DSC	Y	ABR	DSC		
109	BL	N			Y	ABR,RS	CT	Y	ABR	PT	Y	ABR	DSC		
110	FL	Y	ABR	DSC	Y	ABR	PT	Y	ABR	PT	Y	ABR,RS	DSC		
111	FL	N			Y	ABR	DSC	N			Y	ABR	DSC		
112	BL	N			Y	NM	DSC	Y	ABR	PT	Y	RS	CT		
113	FL	N			Y	ABR	CT	Y	NM	PT	Y	RS	PT		
114	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	CT		
115	FL	N			N			Y	ABR	PT	Y	ABR	PT		
117	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
118	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
119	BL	N			N			Y	RS	PT	N				
120	BL	N			Y	RS	PT	Y	ABR	DSC	Y	RS	PT		
121	FL	N			Y	ABR	PT	Y	RS	PT	Y	ABR	PT		
122	BL	N			N			N			Y	ABR	DSC		
123	FL	N			N			Y	RS	DSC	Y	RS	DSC		
124	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
127	BL	N			N			N			Y	ABR	PT		
128	BL	Y	ABR,RS	PT	N			N			N				
129	FL	Y	ABR	DSC	Y	ABR,RS	DSC	Y	ABR	PT	Y	ABR	PT		
130	FL	Y	ABR,RS	CT	Y	ABR	CT	Y	ABR,NM	DSC	Y	ABR	DSC		
131	FL	Y	ABR	PT	Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	DSC		
132	FL	Y	RS	PT	Y	ABR	CT	N	BS		Y	ABR	CT		
133	FL	N			N			Y	ABR	PT	Y	ABR	PT		
134	FL	N			Y	ABR	CT	Y	RS	DSC	Y	NM	DSC		
135	FL	Y	ABR	DSC	N			Y	ABR	PT	Y	ABR	PT		
136	FL	Y	ABR	PT	Y	RS	DSC	Y	ABR	CT	Y	ABR	CT		
138	FL	N			Y	NM	DSC	Y	ABR	DSC	Y	RS	DSC		
139	FL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	DSC		
141	FL	Y	RS	PT	Y	ABR,RS	DSC	N			Y	RS	DSC		
143	BL	N			Y	RS	CT	Y	ABR,RS	DSC	Y	ABR	PT		
144	FL	Y	ABR	PT	Y	ABR	DSC	N			Y	ABR	PT		
145	FL	N			Y	ABR	CT	N			Y	RS	DSC		
147	FL	N			N			Y	ABR	PT	N				
148	FL	N			N			Y	RS	PT	Y	RS	DSC		
149	FL	N			Y	ABR	PT	Y	ABR	PT	N				
150	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	DSC		
151	FL	N			Y	ABR,RS	DSC	N			Y	ABR	DSC		
152	FL	N			Y	ABR	PT	N			Y	RS	PT		
153	FL	Y	RS	PT	Y	ABR,RS	CT	Y	ABR	PT	Y	ABR,RS	PT		
154	FL	N			N			Y	ABR	PT	N				
155	FL	Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	PT	Y	RS	PT		
156	BL	N			Y	ABR	PT	N			Y	RS	PT		
157	FL	N			Y	ABR	PT	Y	ABR,RS	DSC	Y	RS	PT		
158	FL	N			N			Y	ABR	DSC	N				

160	FL	Y	ABR	DSC	N			Y	ABR	DSC	N				
163	FL	Y	NM	DSC	N			N			N				
165	FL	N			N			Y	RS	DSC	N				
166	FL	N			N			Y	ABR	DSC	N				
167	FL	N			N			Y	ABR	PT	Y	ABR	PT		
168	BL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	CT		
169	FL	Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT	N				
170	FL	N			N			Y	ABR	DSC	N				
171	FL	N			N			N			Y	ABR,RS	DSC		
173	FL	N			Y	ABR	DSC	N			Y	ABR	DSC		
174	FL	N			Y	ABR	PT	N			N				
175	FL	N			Y	ABR	DSC	Y	ABR	DSC	N				
176	FL	N			N			Y	ABR	PT	N				
179	FL	Y	ABR	PT	N			N			N				
180	BL	N			Y	ABR	PT	Y	ABR,RS	DSC	Y	ABR	PT		
181	FL	N			N			N			Y	ABR	PT		
182	FL	N			Y	ABR	PT	N			Y	ABR	PT		
183	FL	N			Y	ABR	PT	N			N				
184	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
186	FL	N			Y	ABR	PT	Y	ABR	CT	N				
187	FL	N			N			Y	RS	DSC	Y	ABR	DSC		
188	FL	N			N			Y	RS	DSC	N				
189	FL	N			N			N			Y	ABR	PT		
190	BL	N			Y	ABR	PT	Y	ABR,RS	DSC	Y	ABR	PT		
191	FL	N			N			N			Y	ABR	DSC		
192	FL	N			Y	ABR	PT	Y	RS	DSC	N				
194	BL	N			N			N			Y	ABR	PT		
195	FL	Y	ABR	PT	Y	ABR	DSC	N			N				
196	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
197	FL	N			N			Y	ABR	DSC	Y	ABR	PT		
198	BL	N			N			Y	RS	DSC	N				
199	FL	Y	ABR	PT	N			N			Y	ABR	DSC		
200	BL	N			Y	ABR	PT	N			Y	ABR	DSC		
201	FL	Y	ABR	PT	Y	ABR	CT	Y	ABR	PT	Y	RS	DSC		
202	FL	Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC	Y	ABR,RS	DSC		
203	FL	Y	ABR	PT	N			Y	ABR	DSC	Y	ABR	PT		
204	FL	N			N			N			Y	RS	DSC		
205	FL	Y	ABR	PT	N			Y	ABR	CT	N				
206	FL	N			N			Y	ABR	PT	N				
207	FL	N			N			N			Y	ABR	PT		
213	FL	N			N			Y	ABR	DSC	Y	RS	DSC		
214	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
215	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
216	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
217	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	CT		
218	FL	N			N			Y	ABR,RS	DSC	Y	ABR	DSC		
219	FL	N			N			Y	ABR	DSC	Y	RS	PT		
220	FL	N			N			Y	ABR	DSC	N				
222	BL	N			N			Y	ABR	PT	Y	ABR	PT		
223	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
224	BL	N			N			Y	ABR,RS	DSC	Y	RS	DSC		
225	FL	N			Y	ABR,RS	PT	Y	ABR,RS	DSC	Y	ABR	PT		
226	BL	N			N			N			Y	ABR,RS	DSC		
227	FL	Y	ABR	PT	Y	ABR,RS	CT	Y	ABR,RS	DSC	Y	ABR	CT		
228	FL	N			N			Y	ABR	PT	Y	ABR	PT		
229	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	DSC		
231	FL	Y	ABR	DSC	N			N			N				
232	FL	N			N			Y	ABR	DSC	Y	ABR	PT		
233	FL	N			N			Y	ABR	DSC	Y	ABR	PT		
235	FL	N			N			N			Y	ABR	PT		
236	FL	N			N			Y	ABR	DSC	Y	ABR	PT		
237	FL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC		
238	FL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC		
239	BL	N			N			Y	RS	PT	Y	ABR	DSC		
240	FL	N			Y	ABR	DSC	N			Y	RS	PT		
241	FL	N			N			N			Y	ABR	PT		
243	FL	N			N			Y	ABR	DSC	N				
244	BL	N			N			Y	RS	DSC	Y	ABR	DSC		
245	FL	N			N			Y	ABR	PT	Y	ABR	CT		
246	FL	N			N			Y	ABR	DSC	Y	ABR	PT		
247	FL	N			Y	ABR	PT	N			N				
248	FL	N			Y	NM	DSC	N			N				
249	FL	Y	ABR	PT	Y	ABR	PT	Y	ABR	PT	Y	ABR,RS	DSC		
252	FL	Y	ABR	PT	N			Y	RS	PT	N				
256	FL	N			N			Y	RS	PT	N				
258	FL	N			N			Y	RS	PT	N				
261	FL	N			N			Y	ABR,RS	CT	Y	ABR	PT		
263	BL	N			N			Y	RS	PT	Y	ABR	DSC		
265	FL	N			N			N			Y	ABR	PT		
266	FL	N			N			Y	ABR	PT	Y	ABR	PT		
268	FL	N			Y	ABR	PT	Y	ABR	CT	N				
269	BL	N			Y	ABR	PT	N			N				
270	FL	N			Y	RS	DSC	Y	ABR,RS	DSC	N				
271	BL	N			Y	RS	CT	Y	RS	CT	N				
272	BL	N			Y	ABR,RS	DSC	Y	ABR	DSC	Y	ABR	PT		

273	FL	N			N			Y	ABR	DSC	Y	RS	DSC		
274	FL	N			N			Y	RS	PT	N				
275	FL	N			N			Y	ABR	PT	Y	RS	PT		
276	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	PT		
277	BL	N			N			Y	ABR,RS	DSC	Y	RS	PT		
278	FL	N			Y	ABR	DSC	N			N				
279	FL	N			N			Y	ABR	PT	N				
280	FL	Y	ABR	DSC	N			N			N				
281	FL	N			N			Y	ABR	PT	N				
283	FL	N			N			Y	ABR,NM	PT	N				
286	FL	N			N			Y	ABR	DSC	N				
287	FL	N			N			Y	ABR	PT	Y	RS	PT		
289	FL	N			N			Y	ABR	DSC	N				
291	FL	Y	RS	PT	N			N			Y	RS	DSC		
292	FL	N			Y	ABR	CT	N			N				
293	FL	N			Y	ABR	DSC	Y	ABR	PT	Y	ABR	PT		
294	BL	Y	ABR	DSC	N			Y	ABR	PT	Y	ABR	DSC		
295	FL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	DSC		
296	FL	N			N			Y	ABR	PT	N				
299	BL	N			N			N			Y	ABR,RS	DSC		
300	FL	N			Y	RS	PT	N			N				
301	FL	N			Y	ABR	DSC	N			Y	ABR	PT		
303	FL	N			Y	ABR	DSC	N			Y	ABR	DSC		
304	FL	N			Y	RS	PT	N			Y	ABR	PT		
305	BL	N			N			Y	RS	PT	N				
307	FL	Y	ABR	PT	Y	RS	DSC	Y	RS	CT	Y	ABR	PT		
309	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
310	FL	N			Y	ABR	CT	N			Y	ABR,RS	CT		
311	FL	N			N			Y	RS	DSC	N				
313	FL	N			Y	ABR	PT	Y	ABR	PT	N				
314	BL	N			N			Y	ABR	CT	Y	ABR	CT		
315	FL	N			Y	RS	CT	Y	RS	PT	N				
316	FL	N			Y	RS	PT	Y	ABR	PT	N				
317	FL	N			Y	RS	PT	Y	RS	DSC	Y	RS	PT		
321	FL	N			N			N			Y	RS	DSC		
322	FL	N			N	BS		N			N				
324	FL	N			N			Y	ABR	PT	N				
326	FL	N			Y	ABR	PT	Y	ABR	PT	N				
327	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
328	BL	Y	ABR	PT	N			N			Y	ABR	DSC		
329	BL	Y	RS	PT	Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	DSC		
330	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
331	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
332	BL	N			Y	RS	PT	Y	RS	PT	Y	ABR	PT		
333	BL	N			Y	ABR	CT	Y	RS	DSC	Y	ABR	PT		
334	BL	N			N			Y	ABR	DSC	N				
337	BL	N			N			Y	RS	DSC	Y	ABR,RS	DSC		
339	BL	N			Y	ABR	PT	Y	ABR,RS	DSC	Y	RS	PT		
340	BL	Y	ABR	DSC	N			Y	ABR	PT	Y	ABR	PT		
341	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
342	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
343	BL	Y	ABR	PT	N			N			Y	RS	PT		
344	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR,RS	DSC		
345	BL	N			N			Y	ABR	PT	Y	RS	DSC		
346	BL	N			N			Y	RS	PT	N				
347	BL	N			N			N			Y	ABR,NM	DSC		
348	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
349	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
350	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
351	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
352	FL	Y	ABR	PT	N			N			Y	NM	DSC		
353	BL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	PT		
354	FL	N			Y	ABR	PT	N			Y	ABR	PT		
355	FL	N			N			N			Y	RS	PT		
356	FL	N			N			Y	RS	DSC	Y	RS	PT		
357	FL	N			Y	ABR	PT	N			Y	ABR,RS	DSC		
359	FL	N			N			Y	ABR	PT	N				
360	FL	N			N			Y	NM	PT	Y	ABR,NM	DSC		
362	FL	N			N			N			Y	RS	PT		
363	FL	N			N			N			Y	ABR	PT		
364	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
365	FL	N			N			Y	ABR	PT	Y	ABR	DSC		
367	FL	N			Y	ABR	DSC	N			Y	ABR	PT		
368	FL	N			N			N			Y	ABR,RS	DSC		
374	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	DSC		
375	FL	N			N			Y	ABR,RS	DSC	Y	ABR	DSC		
376	BL	Y	ABR	DSC	N			Y	RS	DSC	Y	RS	DSC		
377	FL	N			N			Y	ABR	PT	Y	ABR	DSC		
378	BL	N			N			N			Y	ABR	DSC		
379	BL	N			N			Y	ABR	DSC	N				
380	FL	Y	NM	PT	Y	ABR	DSC	Y	ABR	DSC	N				
381	BL	N			Y	ABR,RS	DSC	Y	ABR	DSC	Y	ABR	CT		
382	FL	N			Y	ABR	PT	Y	RS	DSC	Y	ABR	PT		
384	FL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR,NM	CT		
385	BL	N			N			Y	ABR	CT	Y	ABR	CT		

387	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	PT		
388	FL	N			Y	ABR	CT	N			Y	ABR	PT		
389	FL	N			Y	ABR	CT	Y	RS	DSC	Y	ABR,RS	CT		
390	FL	N			N			Y	ABR	PT	Y	RS	DSC		
391	BL	N			Y	ABR	PT	Y	RS	DSC	Y	ABR	DSC		
392	BL	N			N			Y	NM	DSC	Y	ABR	PT		
393	BL	N			N			Y	ABR,RS	DSC	Y	ABR	DSC		
394	BL	N			N			Y	NM	DSC	Y	ABR	DSC		
395	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
396	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
397	BL	N			N			Y	RS	PT	Y	RS	DSC		
398	BL	N			N			Y	ABR	PT	N				
399	BL	N			N			Y	ABR	PT	N				
401	BL	N			N			Y	ABR,RS	DSC	Y	NM	DSC		
402	BL	N			N			Y	ABR	CT	Y	ABR	CT		
403	BL	N			Y	RS	CT	N			Y	ABR	DSC		
404	FL	N			N			Y	ABR	PT	N				
405	BL	N			N			Y	ABR	PT	Y	ABR	PT		
406	BL	N			N			Y	RS	DSC	Y	ABR,RS	DSC		
407	BL	N			N			Y	ABR	PT	Y	ABR,RS	DSC		
408	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
409	BL	N			Y	ABR	PT	Y	ABR	CT	Y	ABR	DSC		
410	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
411	BL	N			N			Y	ABR	CT	Y	ABR	PT		
412	BL	N			Y	ABR	PT	N			N				
413	BL	N			N			N			Y	RS	PT		
414	BL	N			N			Y	ABR	DSC	Y	ABR,RS	CT		
415	BL	N			N			Y	RS	PT	Y	ABR	DSC		
416	BL	N			N			N			Y	ABR,RS	DSC		
417	BL	N			N			Y	ABR,RS	PT	Y	ABR,RS	DSC		
418	BL	N			N			Y	ABR	PT	Y	ABR	CT		
419	FL	N			N			Y	RS	DSC	N				
420	BL	N			N			Y	ABR,RS	DSC	Y	RS	DSC		
421	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	NM	DSC		
422	BL	N			N			N			Y	NM	PT		
424	BL	N			Y	ABR,RS	DSC	N			Y	ABR	DSC		
425	FL	N			N			N			Y	ABR	CT		
426	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
427	FL	N			N			N			Y	ABR	PT		
428	BL	N			N			Y	ABR	PT	Y	ABR	PT		
429	FL	N			N			Y	ABR	PT	Y	ABR	CT		
430	BL	N			N			Y	ABR	PT	N				
431	FL	N			N			N			Y	ABR,RS	CT		
432	BL	N			N			N			Y	ABR,RS	CT		
433	BL	N			N			Y	RS	CT	Y	ABR	PT		
435	BL	N			N			Y	RS	PT	Y	RS	DSC		
436	BL	N			N			Y	RS	PT	Y	RS	PT		
437	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
438	BL	N			N			N			Y	ABR,RS	CT		
439	BL	N			N			Y	ABR,RS	DSC	Y	ABR	PT		
440	BL	N			N			Y	ABR	DSC	Y	NM	PT		
441	BL	N			N			N			Y	NM,RS	DSC		
442	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
443	BL	N			N			Y	ABR,RS	DSC	Y	RS	DSC		
444	BL	N			N			Y	ABR	CT	Y	ABR	PT		
445	BL	N			N			Y	RS	DSC	Y	ABR	PT		
446	BL	N			N			Y	RS	PT	Y	ABR	CT		
447	BL	N			N			Y	ABR,RS	DSC	Y	ABR	DSC		
448	BL	N			N			Y	ABR,RS	DSC	Y	ABR	PT		
449	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
451	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
452	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
453	BL	N			N			Y	ABR	DSC	Y	ABR,RS	CT		
454	BL	N			N			Y	ABR	PT	Y	ABR	PT		
455	BL	N			N			Y	ABR	CT	Y	ABR	PT		
456	BL	N			N			Y	RS	PT	Y	ABR,RS	DSC		
457	BL	N			N			Y	RS	CT	Y	NM,RS	DSC		
458	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
459	BL	N			N			N			Y	ABR,RS	DSC		
460	BL	N			N			Y	ABR	PT	Y	ABR,RS	DSC		
461	BL	N			N			Y	ABR	DSC	Y	ABR	CT		
462	BL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	DSC		
463	BL	Y	ABR	PT	N			Y	ABR	PT	Y	RS	CT		
464	BL	N			N			Y	ABR	DSC	N				
465	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC		
466	BL	N			N			Y	ABR	PT	Y	RS	DSC		
467	BL	N			N			N			Y	RS	DSC		
468	BL	N			N			Y	RS	PT	N				
469	FL	N			N			Y	ABR	CT	Y	ABR	CT		
470	BL	N			N			N			Y	ABR	PT		
472	BL	N			N			Y	NM	DSC	Y	ABR,RS	DSC		
474	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
475	BL	N			N			N			Y	ABR,RS	DSC		
476	BL	N			Y	ABR	PT	N			N				
478	BL	N			N			Y	ABR,RS	DSC	Y	ABR	DSC		

479	BL	N			N			Y	ABR	PT	N				
480	BL	Y	ABR	PT	N			Y	ABR	PT	Y	ABR	PT		
481	FL	N			Y	ABR	PT	Y	ABR	CT	Y	RS	PT		
482	FL	N			N			Y	ABR	DSC	N				
483	FL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	PT		
484	BL	N			N			Y	ABR	PT	Y	NM	PT		
485	BL	N			N			Y	ABR	CT	Y	NM	PT		
486	FL	N			Y	ABR	CT	Y	ABR	CT	Y	RS	DSC		
487	FL	N			Y	ABR	DSC	Y	ABR	DSC	Y	RS	DSC		
488	FL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR	DSC		
489	FL	N	BS		N			Y	RS	DSC	Y	ABR	CT		
490	FL	N			N			Y	NM	DSC	Y	ABR	DSC		
491	FL	Y	ABR	PT	N			Y	ABR	PT	N				
492	FL	N			N			Y	NM	PT	Y	RS	PT		
493	BL	N			N			Y	RS	PT	Y	NM	PT		
494	FL	N			N			Y	RS	PT	Y	ABR	PT		
495	BL	N			N			N			Y	ABR	PT		
497	FL	N			Y	ABR	CT	N			Y	ABR	PT		
498	FL	N			N			N			Y	ABR	PT		
499	FL	N			N			N			Y	ABR	PT		
500	BL	N			Y	ABR	PT	N			N				
501	FL	N			N			Y	ABR	DSC	N				
502	BL	Y	ABR	PT	N			Y	RS	PT	Y	ABR	DSC		
503	BL	N			N			Y	ABR	PT	Y	RS	PT		
504	BL	N			N			N			Y	ABR	PT		
506	BL	N			N			Y	RS	PT	Y	ABR	PT		
508	BL	Y	ABR	PT	N			Y	NM	PT	Y	ABR	DSC		
509	BL	N			Y	NM	CT	N			N				
513	FL	N			N			Y	ABR	PT	Y	RS	CT		
514	BL	N			N			Y	NM	DSC	Y	NM	DSC		
516	BL	N			Y	ABR	PT	N			N				
517	BL	N			N			N			Y	NM	PT		
518	BL	N			N			Y	ABR,RS	PT	Y	ABR,NM	DSC		
519	BL	N			N			Y	RS	PT	Y	ABR	DSC		
520	BL	N			N			Y	NM	DSC	N				
523	FL	N			Y	ABR	PT	N			Y	ABR	PT		
524	BL	N			N			N			Y	ABR	DSC		
526	FL	N			N			N	BS		N				
527	BL	N			N			N			Y	ABR	DSC		
528	FL	N			N			Y	RS	PT	Y	NM	PT		
529	BL	N			N			Y	RS	PT	Y	ABR	PT		
532	FL	N			N			N			Y	RS	PT		
533	BL	N			N			Y	RS	DSC	Y	NM	DSC		
534	FL	N			N			Y	NM	PT	Y	ABR,NM	CT		
535	BL	N			N			N			Y	ABR	PT		
541	BL	N			N			N			Y	ABR	CT		
542	BL	N			N			Y	ABR	PT	N				
544	BL	N			Y	ABR,NM	CT	Y	ABR	DSC	Y	ABR	PT		
545	FL	N			N			N			Y	NM	PT		
546	BL	N			N			N			Y	ABR	DSC		
548	BL	N			N			Y	NM	CT	Y	NM	DSC		
549	BL	N			N			Y	NM	CT	Y	NM	DSC		
550	FL	N			N			Y	NM	CT	N				
551	BL	N			N			N			Y	ABR,NM	PT		
552	BL	N			N			Y	NM	CT	Y	NM	CT		
554	FL	N			N			N			Y	RS	DSC		
558	BL	N			N			Y	ABR	PT	N				
559	BL	N			N			N			Y	ABR	CT		
562	BL	N			N			Y	NM	DSC	Y	ABR	PT		
563	FL	N			N			Y	ABR,RS	CT	Y	ABR,NM	CT		
564	BL	N			N			Y	ABR	PT	N				
565	BL	N			N			Y	ABR	PT	N				
566	FL	N			N			N			Y	ABR	PT		
567	FL	Y	NM	DSC	N			N			Y	ABR	PT		
569	BL	N			N			N			Y	NM	PT		
572	FL	N			N			Y	ABR	DSC	N				
574	BL	N			Y	ABR	PT	Y	RS	PT	Y	ABR	PT		
575	FL	N			N			Y	ABR	PT	N				
576	BL	N			N			Y	RS	PT	N				
580	FL	N			N			Y	ABR	PT	Y	NM	PT		
581	FL	N			Y	NM	DSC	Y	RS	PT	N	BS			
582	BL	N			N			Y	ABR	PT	Y	ABR	CT		
583	FL	N			Y	ABR	PT	Y	RS	DSC	Y	RS	PT		
586	FL	N			N			Y	NM	PT	Y	NM	DSC		
588	BL	N			N			Y	ABR	PT	Y	NM,RS	CT		
589	BL	N			N			Y	ABR	PT	N				
591	BL	N			N			Y	ABR	DSC	N				
592	BL	N			N			N			Y	ABR	PT		
596	FL	N			Y	RS	PT	Y	ABR,RS	DSC	Y	ABR	PT		
601	FL	N			N			Y	ABR	PT	N				
602	FL	N			N			N			Y	RS	PT		
603	FL	N			N			Y	ABR	DSC	N				
604	FL	N			N			Y	NM	PT	Y	ABR	PT		
605	FL	N			N			Y	ABR	PT	N				
607	FL	N			N			Y	ABR	CT	N				

614	BL	N			Y	ABR	DSC	Y	ABR	DSC	N				
615	FL	N			N			N			Y	RS	PT		
616	FL	N			Y	RS	DSC	Y	RS	DSC	N				
617	FL	N			N			Y	ABR	PT	Y	ABR	DSC		
618	FL	N			N			Y	ABR	PT	Y	ABR	PT		
619	FL	N			Y	ABR	PT	N	BS		N				
620	BL	N			N			Y	NM	DSC	Y	ABR	PT		
622	FL	N			N			Y	ABR	PT	N				
624	BL	N			Y	ABR	DSC	Y	ABR	DSC	Y	ABR	PT		
627	FL	N			Y	ABR	CT	Y	RS	DSC	Y	RS	PT		
628	FL	N			N			Y	RS	PT	N				
629	FL	N			Y	ABR	CT	Y	ABR	PT	N				
630	BL	N			N			Y	ABR,RS	DSC	Y	RS	DSC		
631	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
636	FL	N			N			N			Y	ABR	DSC		
637	FL	N			Y	ABR	PT	N			N				
639	FL	N			Y	ABR	DSC	Y	ABR	PT	N				
640	FL	Y	ABR	CT	Y	ABR	CT	N			Y	ABR	PT		
641	BL	N			N			Y	ABR	PT	N				
643	BL	N			Y	ABR	DSC	Y	ABR,NM	DSC	Y	ABR	DSC		
644	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
645	FL	N			N			Y	ABR	PT	N				
646	BL	Y	ABR	CT	N			Y	ABR	DSC	Y	ABR	DSC		
647	BL	N			N			Y	ABR	PT	Y	ABR	PT		
649	FL	N			N			Y	ABR	PT	Y	ABR	PT		
651	FL	N			N			N			Y	ABR	PT		
652	FL	N			N			N			Y	ABR	PT		
654	FL	N			Y	ABR	PT	Y	ABR	PT	N				
655	FL	Y	RS	PT	N			N			Y	NM	CT		
657	FL	N			N			Y	ABR	DSC	Y	ABR	DSC		
659	BL	N			N			Y	ABR	CT	N				
661	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
664	FL	N			N			Y	RS	PT	Y	RS	PT		
665	FL	N			N			Y	RS	PT	N				
666	FL	N			N			Y	ABR	PT	Y	RS	PT		
667	FL	N			Y	ABR	PT	N			N				
669	FL	N			Y	ABR	PT	N			Y	ABR	PT		
670	FL	N			N			N			Y	ABR	PT		
671	FL	Y	ABR	PT	Y	ABR,NM	CT	Y	RS	DSC	Y	ABR	CT		
672	FL	N			N			Y	ABR	PT	Y	RS	DSC		
673	FL	N			N			Y	RS	PT	Y	RS	PT		
674	BL	N			N			Y	ABR	DSC	N				
677	FL	N			N			N			Y	ABR	DSC		
678	FL	N			N			Y	ABR	PT	N				
679	BL	N			Y	RS	CT	N			Y	NM	PT		
680	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	NM	PT		
681	FL	N			N			N			Y	NM	PT		
682	FL	Y	ABR	PT	N			N			N				
683	FL	N			N			Y	RS	PT	Y	ABR	PT		
684	FL	N			N			N			Y	ABR	PT		
685	FL	N			N			Y	RS	DSC	N				
686	FL	N			N			N			Y	ABR	PT		
687	FL	N			N			Y	NM	DSC	N				
688	FL	N			N			N			Y	NM,RS	DSC		
689	FL	N			N			Y	ABR	DSC	N				
690	FL	N			Y	ABR,RS	DSC	N			N				
691	BL	N			N			Y	ABR	PT	Y	ABR	PT		
692	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
693	BL	N			N			Y	RS	CT	Y	ABR	PT		
694	FL	N			Y	RS	CT	N			N				
696	FL	N			N			Y	ABR	CT	Y	RS	CT		
697	BL	N			N			Y	NM,RS	PT	Y	NM,RS	PT		
698	FL	N			N			N			Y	ABR,RS	DSC		
699	BL	N			N			Y	RS	PT	Y	ABR	PT		
700	BL	N			Y	RS	PT	N			Y	RS	DSC		
703	FL	Y	NM	PT	N			Y	ABR	PT	Y	ABR	PT		
704	FL	N			Y	RS	DSC	N			Y	ABR,RS	CT		
705	BL	N			N			Y	ABR	DSC	Y	ABR,RS	DSC		
707	FL	N			N			N			Y	RS	DSC		
708	BL	N			N			Y	ABR,RS	DSC	Y	ABR	PT		
709	FL	N			N			Y	ABR,RS	PT	Y	RS	PT		
710	FL	N			N			Y	ABR	PT	Y	ABR	PT		
711	BL	N			Y	RS	PT	Y	RS	PT	N				
712	BL	Y	ABR	PT	N			N			Y	ABR	PT		
713	BL	N			N			Y	ABR	PT	N				
714	FL	N			Y	ABR	PT	Y	ABR	DSC	N				
715	FL	N			N			Y	NM	PT	N				
716	BL	N			N			Y	NM	DSC	N				
718	BL	N			Y	ABR	PT	Y	ABR	PT	N				
719	BL	N			Y	ABR,RS	PT	Y	RS	PT	N				
723	BL	N			N			N			Y	ABR	PT		
724	BL	N			Y	ABR	PT	N			Y	NM	PT		
725	BL	Y	ABR	CT	N			N			Y	ABR	PT		
726	BL	Y	ABR	DSC	N			N			Y	ABR,RS	PT		
728	FL	N			Y	ABR	PT	N			Y	ABR	PT		

729	BL	N			N			Y	ABR	PT	N				
730	FL	N			N			N			Y	ABR	PT		
731	FL	N			Y	ABR	PT	Y	ABR	PT	Y	NM	PT		
732	FL	N			N			N			Y	ABR	PT		
734	FL	Y	ABR,NM	DSC	Y	ABR	DSC	N			N				
737	FL	N			Y	RS	PT	Y	ABR	DSC	N				
738	FL	N			Y	RS	DSC	N			Y	ABR	PT		
739	FL	N			Y	RS	PT	Y	RS	PT	Y	RS	PT		
740	BL	N			Y	RS	PT	Y	ABR	PT	N				
741	BL	N			N			Y	RS	PT	N				
743	BL	N			N			N			Y	RS	PT		
747	BL	N			N			Y	ABR	PT	Y	ABR	PT		
749	BL	N			N			N			Y	RS	PT		
750	BL	N			N			N			Y	ABR	PT		
751	BL	N			N			N			Y	NM	PT		
752	BL	Y	ABR	CT	Y	RS	CT	Y	ABR	DSC	N				
753	FL	N			Y	ABR	CT	N			Y	NM	PT		
754	FL	N			N			N			Y	RS	PT		
756	BL	N			N			Y	RS	PT	Y	RS	DSC		
757	FL	N			Y	RS	PT	N			Y	RS	CT		
758	FL	N			N			N			Y	RS	PT		
759	FL	N			N			N			Y	RS	DSC		
761	FL	N			Y	NM	PT	N			N				
762	FL	N			Y	ABR	PT	N			N				
763	BL	N			N			N			Y	ABR	PT		
765	FL	Y	RS	DSC	Y	NM	PT	N			Y	RS	PT		
766	FL	N			N			Y	ABR	PT	Y	RS	PT		
767	FL	N			Y	ABR,RS	CT	N			N				
770	FL	N			Y	RS	PT	Y	RS	PT	N				
771	BL	N			N			N			Y	RS	DSC		
772	BL	N			Y	ABR	CT	N			Y	ABR	CT		
773	FL	N			N			N			Y	RS	PT		
778	BL	N			N			Y	ABR	PT	N				
782	FL	N			N			N			Y	RS	DSC		
786	FL	N			Y	NM	PT	N			N				
789	BL	N			N			Y	ABR	CT	N				
790	BL	N			N			Y	RS	PT	Y	ABR,RS	PT		
792	FL	N			Y	NM,RS	DSC	N			Y	NM	CT		
794	FL	N			Y	RS	PT	N			N				
795	BL	N			N			Y	RS	PT	N				
796	FL	N			N			Y	RS	DSC	N				
797	FL	N			Y	ABR	CT	N			N				
798	BL	Y	NM	PT	N			N			N				
800	FL	N			Y	ABR	PT	N			Y	RS	DSC		
803	FL	N			N			Y	NM	PT	N				
807	FL	N			N			Y	ABR	DSC	N				
808	FL	N			Y	RS	PT	N			N				
811	FL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	DSC		
814	FL	N			Y	ABR	PT	N			Y	ABR	PT		
815	FL	N			N			Y	ABR	PT	N				
818	BL	N			Y	ABR	PT	N			N				
819	BL	N			N			Y	ABR,NM	DSC	N				
820	BL	N			N			Y	NM	PT	N				
821	BL	Y	RS	PT	N			N			N				
824	BL	N			N			Y	ABR	DSC	N				
825	FL	N			N			N			Y	ABR	DSC		
826	FL	N			N			Y	ABR	PT	N				
831	BL	N			N			N			Y	ABR	DSC		
832	BL	N			Y	ABR,RS	PT	N			N				
833	FL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC		
834	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	PT		
835	BL	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
836	BL	N	BS												
837	BL	N	BS												
838	BL	Y	ABR	CT	N			N			N				
840	FL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR	DSC		
841	FL	Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC		
842	BL	N			Y	ABR	CT	Y	NM	DSC	Y	ABR	DSC		
843	FL	N			Y	NM	CT	N			N				
844	BL	Y	ABR	DSC	Y	ABR	CT	Y	ABR,RS	CT	Y	ABR	DSC		
845	BL	N			N			Y	ABR	CT	Y	ABR	DSC		
846	BL	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
847	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
848	BL	N			Y	ABR,RS	PT	Y	RS	DSC	Y	ABR	PT		
849	BL	N			N			Y	ABR	PT	Y	ABR	DSC		
850	BL	N			N			Y	ABR	DSC	N				
851	FL	N			N			N			Y	NM	PT		
852	FL	N			N			Y	ABR	PT	Y	ABR	PT		
853	BL	N			Y	ABR	DSC	Y	ABR,NM	DSC	Y	ABR	PT		
854	BL	N			Y	ABR	PT	Y	NM	PT	Y	ABR	DSC		
855	BL	Y	ABR	DSC	N			Y	RS	PT	N				
856	FL	N			Y	ABR	DSC	Y	ABR	DSC	N				
857	BL	N	BS		N	BS		N			N				
858	BL	N			Y	ABR	DSC	Y	ABR	DSC	Y	ABR,NM	DSC		
859	BL	N			Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC		

860	BL	Y	NM	CT	N			Y	ABR	PT	Y	NM	CT		
862	BL	N			Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
863	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	DSC		
864	FL	N			N			Y	ABR	DSC	N				
865	FL	N			N			Y	ABR	CT	Y	ABR	PT		
866	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
867	FL	N			N			Y	ABR	PT	N				
868	BL	N			N			Y	ABR	DSC	Y	RS	DSC		
869	BL	Y	NM	DSC	Y	ABR,RS	DSC	Y	ABR	DSC	Y	ABR	DSC		
870	BL	N			Y	ABR	PT	Y	ABR	PT	Y	ABR	PT		
871	FL	N			Y	ABR	DSC	Y	ABR	CT	Y	ABR	DSC		
872	BL	N			Y	ABR	DSC	Y	ABR	DSC	Y	RS	DSC		
873	BL	Y	ABR	DSC	Y	ABR	PT	Y	ABR	DSC	Y	ABR	PT		
874	BL	Y	ABR	PT	Y	ABR	DSC	Y	ABR	DSC	Y	ABR	DSC		
875	FL	Y	ABR	PT	N			Y	ABR	DSC	Y	RS	DSC		
876	FL	N			Y	ABR	DSC	Y	RS	DSC	Y	ABR	PT		
877	FL	N			N			Y	ABR,RS	DSC	Y	RS	PT		
878	FL	N			Y	RS	CT	Y	RS	PT	Y	ABR	DSC		
879	FL	Y	RS	CT	Y	NM	PT	Y	ABR	DSC	N				
880	BL	N			Y	ABR,RS	DSC	Y	RS	DSC	Y	ABR	DSC		
881	FL	N			Y	RS	PT	N			N				
883	BL	N			N			N			Y	ABR	PT		
885	FL	N			Y	ABR	DSC	N			Y	ABR	PT		
886	FL	N			N			Y	RS	PT	N				
888	FL	Y	ABR	PT	Y	ABR	DSC	N			Y	ABR	PT		
889	FL	N			Y	ABR	PT	N			N				
890	FL	N			Y	ABR,RS	DSC	N			N				
891	BL	N			N			Y	RS	DSC	N				
892	FL	N			Y	ABR	PT	Y	ABR	PT	Y	RS	DSC		
893	BL	N			Y	RS	CT	Y	RS	PT	Y	RS	DSC		
894	BL	N			Y	ABR	DSC	Y	ABR	DSC	Y	RS	PT		
895	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
896	BL	N			Y	ABR	CT	Y	ABR,RS	DSC	N				
897	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR,RS	DSC		
898	BL	Y	ABR	CT	N			Y	RS	CT	Y	RS	CT		
899	BL	N			Y	ABR	CT	Y	RS	PT	Y	ABR	PT		
901	FL	N			Y	ABR	PT	N			N				
902	BL	N			Y	NM	PT	Y	ABR	DSC	Y	RS	PT		
903	FL	N			Y	RS	DSC	N			N				
904	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	ABR,NM	CT		
905	BL	N			N			Y	ABR,RS	DSC	N				
906	FL	N			Y	ABR	PT	N			N				
907	BL	N			N			Y	NM	PT	Y	NM	PT		
908	FL	N			N			Y	ABR	DSC	N				
909	BL	N			Y	ABR	CT	Y	ABR	DSC	Y	RS	DSC		
910	FL	N			N			Y	ABR	PT	Y	RS	PT		
911	BL	N			N			Y	ABR	DSC	N				
913	BL	N			N			Y	ABR	PT	N				
914	BL	N			Y	RS	PT	N			N				
917	BL	N			N			N			Y	RS	DSC		
918	BL	N			Y	ABR	PT	N			Y	ABR	PT		
919	BL	N			N			Y	ABR	DSC	Y	ABR	PT		
920	FL	N			Y	ABR	PT	N			N				
922	FL	N			N	BS		N			N				
923	BL	N	BS		N	BS		Y	ABR	DSC	Y	ABR	DSC		
924	FL	N			N			Y	ABR	DSC	Y	RS	PT		
925	FL	N			Y	RS	PT	Y	ABR,RS	DSC	Y	ABR	CT		
927	FL	N			N			Y	ABR	CT	Y	ABR	DSC		
928	BL	N			N			Y	RS	PT	N				
929	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
931	BL	N			N			Y	ABR	PT	Y	ABR	PT		
933	BL	N			N			Y	RS	PT	Y	RS	PT		
934	BL	Y	ABR	CT	N			Y	ABR	CT	Y	ABR	CT		
935	BL	N			N			Y	ABR	DSC	N				
936	BL	N			N			N			Y	ABR	CT		
937	BL	N			Y	ABR	PT	N			N				
938	BL	N			Y	ABR	CT	Y	ABR	PT	N				
939	BL	N			Y	RS	CT	Y	ABR	CT	Y	RS	PT		
940	BL	N			Y	ABR	CT	N			N				
941	BL	N			Y	ABR	CT	N			N				
942	BL	N			N			Y	ABR	DSC	N				
944	BL	N			Y	RS	PT	N			N				
945	BL	N			N			Y	ABR	PT	Y	RS	PT		
952	BL	N			Y	ABR	CT	N			N				
953	BL	N			N			Y	ABR	PT	Y	ABR	PT		
957	BL	N			N			N			Y	ABR	PT		
958	BL	Y	RS	PT	N			N			N				
964	BL	N			N			Y	ABR	DSC	Y	ABR	DSC		
965	BL	N			N			N			Y	RS	PT		
971	FL	N			N			Y	RS	CT	N				
973	BL	N			Y	ABR	PT	N			N				
975	BL	N			N			Y	ABR	DSC	N				
976	BL	N			N			N	BS		N				
993	FL	Y	RS	PT	N			Y	ABR	PT	Y	ABR	PT		
995	FL	Y	RS	CT	N			N			N				

996	BL	N			Y	ABR	CT	Y	ABR	PT	Y	ABR,RS	CT		
997	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR,RS	CT		
998	BL	N			Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
999	BL	N			N	BS		N			N				
1000	FL	Y	ABR	PT	Y	ABR	CT	Y	ABR	CT	Y	ABR	CT		
1001	FL	N			Y	ABR	PT	Y	ABR,RS	CT	Y	ABR	PT		
1002	FL	Y	ABR	PT	Y	ABR	CT	N	BS		Y	NM	CT		
1003	BL	Y	ABR	CT	Y	ABR	CT	N			Y	RS	PT		
1004	BL	N			Y	ABR	CT	N			Y	ABR	DSC		
1005	BL	N			N			Y	ABR	PT	N				
1006	FL	N			Y	ABR	CT	Y	ABR	CT	Y	RS	DSC		
1007	BL	N			Y	ABR	DSC	Y	ABR	PT	Y	ABR	DSC		
1008	BL	N	BS		N			N			Y	ABR	CT		
1009	BL	N			Y	ABR	CT	N			Y	ABR	CT		
1010	BL	Y	ABR	CT	Y	ABR	PT	Y	ABR,RS	DSC	Y	ABR	DSC		
1011	BL	Y	ABR	CT	Y	ABR	CT	Y	RS	DSC	Y	ABR	DSC		
1012	FL	N			Y	ABR	CT	N			N				